
EXHIBIT M1

WATER QUALITY MANAGEMENT PERMIT FOR
THE MALVERN HUNT WASTEWATER TREATMENT PLANT



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT


**WATER QUALITY MANAGEMENT
PERMIT**

PERMIT NO. 1599418

AMENDMENT NO. _____

APS ID. 916602

AUTH. ID. 1139890

A. PERMITTEE (Name and Address): East Whiteland Township 209 Conestoga Road Frazer, PA 19355		CLIENT ID#: 78789	B. PROJECT/FACILITY (Name): Malvern Hunt WWTP	
C. LOCATION (Municipality, County): East Whiteland Township, Chester County			SITE ID#: 527339	
D. THIS PERMIT APPROVES THE OPERATION OF SEWAGE FACILITIES CONSISTING OF: The Malvern Hunt Pump Station with comminutor, an influent bar screen, a two sell aerated treatment lagoon, a storage lagoon, a chlorine disinfection system, and spray fields.				
Pump Stations: _____ Design Capacity: _____ GPM		Manure Storage: Volume: _____ MG Freeboard: _____ inches		Sewage Treatment Facility: Annual Average Flow: <u>0.105</u> MGD Design Hydraulic Capacity: <u>0.128</u> MGD Design Organic Capacity: <u>222</u> lb/day
E. APPROVAL GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING: 1. Permit Renewal: All operations and procedures shall be in accordance with the Water Quality Management Permit application dated <u>5/23/2016</u> , its supporting documentation and addendums dated _____, which are hereby made a part of this permit. Amendments: All construction, operations and procedures shall be in accordance with the Water Quality Management Permit Amendment application dated _____ and its supporting documentation and addendums dated _____, which are hereby made a part of this amendment. Except for any herein approved modifications, all terms, conditions, supporting documentation and addendums approved under Water Quality Management Permit No. _____ dated _____ shall remain in effect. Transfers: Water Quality Management Permit No. _____ dated _____ and conditions, supporting documentation and addendums are also made part of this transfer. 2. Permit Conditions Relating to Sewerage are attached and made part of this permit. 3. Special Conditions <u>1 through XVII</u> are attached and made part of this permit.				
F. THE AUTHORITY GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING FURTHER QUALIFICATIONS: 1. If there is a conflict between the application or its supporting documents and amendments and the attached conditions, the attached conditions shall apply. 2. Failure to comply with the rules and regulations of DEP or with the terms or conditions of this permit shall void the authority given to the permittee by the issuance of this permit. 3. This permit is issued pursuant to the Clean Streams Law Act of June 22, 1937, P.L. 1987, as amended 35 P.S. §691.1 et seq. Issuance of this permit shall not relieve the permittee of any responsibility under any other law.				
PERMIT ISSUED: November 21, 2016		BY:  Jenifer L. Fields, P.E. TITLE: Clean Water Program Manager Southeast Regional Office		

SPECIAL CONDITIONS

Water Quality Management Permit No. 1599418

Malvern Hunt WWTP

East Whiteland Township, Chester County

I. Discharge Limitations and Monitoring Requirements

Effluent from the sewage treatment plant shall be sampled at a point after chlorination and shall be limited at all times as follows:

Parameter	Discharge Limitations (mg/l)			Monitoring Requirements	
	Average Monthly	Average Weekly	Instantaneous Maximum	Measurement Frequency	Sample Type
Influent Flow (mgd)	0.105			Continuous	Recorded
CBOD ₅	25		50	1/Month	Grab
Suspended Solids	30		60	1/Month	Grab
Fecal Coliform	200/100 ml as geometric average			1/Month	Grab
pH	Within limits of 6.0 to 9.0 standard units at all times			1/Month	Grab

Additional treatment requirements include the satisfactory disposal of sludge and the reduction of quantities of oils, greases, acids, alkalis, toxic, taste and odor producing substances, inimical to the public interest to levels which will not pollute the receiving waters.

Monitoring results shall be reported monthly on the Discharge Monitoring Report (DMR). The term "grab" sample means an individual sample collected in less than 15 minutes. Samples and measurements taken as required, herein, shall be representative of the volume and nature of the monitored discharge.

II. Copies of monthly Discharge Monitoring Reports must be submitted within 28 days of the end of the monitoring period to:

Department of Environmental Protection
Southeast Regional Office
Water Management
2 East Main Street
Norristown, PA 19401

III. Groundwater Monitoring Requirements

The permittee shall effectively monitor the quality of the groundwater. The parameters to be tested, and frequency of analysis and other monitoring requirements shall be as follows:

- A. Quarterly analysis of groundwater sampled at groundwater monitoring wells **MW-L1, MW-L2, MW-L3, MW-S1, MW-S2, MW-S3, MW-S6, MW-S7, and MW-S8**, shall consist of: static water level, sampling depth, turbidity, pH, chloride, total phosphorus, ammonia nitrogen, nitrate nitrogen, nitrite nitrogen, total dissolved solids, fecal coliform, and alkalinity.
- B. Groundwater elevations must be measured prior to purging the groundwater monitoring well.
- C. Before collection of the groundwater sample, a groundwater monitoring well shall be properly purged and allowed to recover to at least 90 percent of the well volume that was present prior to purging.
- D. All groundwater samples shall be collected from within the top five feet of the water elevation within the well column.

IV. Groundwater Monitoring Data Reporting Requirements

All groundwater data shall be submitted to DEP **annually** and be in **report form**. The report shall be due to DEP within 28 days of the end of the month of permit issuance. For example, if your permit was issued on March 4th, then your annual report is due by April 28th. The annual report shall be mailed under separate cover and addressed to:

Department of Environmental Protection
Southeast Regional Office
Water Management Program
2 East Main Street
Norristown, PA 19401

Attention: Hydrogeologist
Planning Section

V. The annual groundwater monitoring report shall include the following information:

- A. General Information
 - i. Facility name
 - ii. Facility permit number
 - iii. Facility location (including municipality and county)
 - iv. Facility contact information:
 - a. permittee name, address, and telephone number
 - b. contact name and title
 - c. facility operator name, address, and telephone number
 - d. facility consultant name, address, and telephone number

B. Site Data

- i. A brief narrative that provides the date and description of any facility event which may have impacted any part of the groundwater monitoring program. (e.g., collapse of groundwater monitoring well, etc.).
- ii. Average effluent flow for the year covered by this report.
- iii. In tabular form, the following information needs to be provided for at least the last 5 years of system operation:
 - a. Date of sampling
 - b. Groundwater elevations
 - c. Sampling depth
 - d. Identification of upgradient and downgradient wells
 - e. The results of the analysis of the samples
- iii. Background groundwater data generated prior to system start-up. **This information is absolutely needed and needs to be included in the data tabulation.**

C. Comprehensive Groundwater Evaluation (CGE)

As part of the facility's 5-year permit renewal application, the permittee shall submit a report that is a result of a comprehensive evaluation of the systems impact on groundwater. A Registered P.G. must identify any trends which may pose a threat to human health or certify that none are present. Should adverse impacts to groundwater be identified, the permittee needs to recommend actions to address the potential threat.

D. **Groundwater Background Report**

Within 60 days of system start up, or upon issuance of permit renewal a Groundwater Background Report shall be submitted to DEP. The report shall include the follow information:

- i. Site Information
 - a. Brief narrative, including site limitations.
 - b. Soil type and bedrock lithology beneath the absorption areas.
 - c. Site drawings showing general location of absorption fields and monitoring wells. Drawings must show site topography.
- ii. Construction details of each groundwater monitoring well shall include:
 - a. Well depth.
 - b. Casing depth.
 - c. Static water levels.
 - d. Surface elevation.
 - e. Well log.
 - f. Water bearing zones.
 - g. Top of casing elevation.
 - h. Ground surface elevation.

VI. Unless, otherwise, specified in this permit, the test procedures for analysis of pollutants shall be those contained in 40 C.F.R. Part 136, or alternative test procedures approved pursuant to that Part. For the analysis of CBOD₅, consult Section 507 of Standard Methods.

- VII. Effective disinfection to control disease producing organisms shall be the production of an effluent which will contain a concentration neither greater than 200/100 ml of Fecal Coliform organisms, as a geometric average value nor greater than 1000/100 ml of these organisms in a more than 10 percent of the samples tested.
- VIII. If the permittee monitors any pollutant more frequently than the permit requires, the results of this monitoring shall be incorporated, as appropriate, into the calculations used to report self-monitoring data on the DMR.
- IX. The authorization to discharge contained in Section D of this permit shall expire in five years from the date of issuance, or reissuance. Application for renewal of this permit, or notification of intent to cease discharging by the expiration date, must be submitted to the Department at least 180 days prior to the above expiration date (unless permission has been granted by the Department for submission at a later date). In the event that a timely and complete application for renewal has been submitted and the Department is unable, through no fault of the permittee, to reissue the permit before the above expiration date, the terms and conditions of this permit will be automatically continued and will remain fully effective and enforceable pending the grant or denial of the application for permit renewal. The application for renewal shall be submitted on the appropriate Water Quality Management Part II Application forms and shall include a tabulated summary of all groundwater monitoring data for the previous five years, including a discussion of groundwater quality trends resulting from this discharge.
- X. Sprayfield Weekly Maximum Hydraulic Loadings
- A. Effluent flows to each sprayfield must be consistent with the maximum hydraulic loading requirements of the following tables, which provide the weekly maximum gallons for each irrigation zone.

**MAXIMUM WEEKLY SPRAYFIELD HYDRAULIC LOADINGS
IN GALLONS**

Spray Zone 1 6.16 Acres Woods		
Month	Inches/Acre/Week	Maximum/Week Gallons
January	0.50	83,671
February	0.50	83,671
March	1.27	212,539
April	1.50	251,020
May	2.00	334,691
June	2.50	418,369
July	2.50	418,369
August	2.50	418,369
September	2.50	418,369
October	1.55	259,410
November	1.16	194,126
December	0.50	83,671

Spray Zone 2 6.19 Acres Woods		
Month	Inches/Acre/Week	Maximum/Week Gallons
January	0.50	84,079
February	0.50	84,079
March	1.27	213,574
April	1.50	252,243
May	2.00	336,321
June	2.50	420,406
July	2.50	420,406
August	2.50	420,406
September	2.50	420,406
October	1.55	260,673
November	1.16	195,072
December	0.50	84,079

Spray Zone 3 6.15 Acres Woods		
Month	Inches/Acre/Week	Maximum/Week Gallons
January	0.50	83,536
February	0.50	83,536
March	1.27	212,194
April	1.50	250,613
May	2.00	334,148
June	2.50	417,690
July	2.50	417,690
August	2.50	417,690
September	2.50	417,690
October	1.55	258,989
November	1.16	193,811
December	0.50	83,536

- B. The permittee shall include with the monthly Discharge Monitoring Report a Supplemental Land Application System Form 3800-FM-BPNPSM0449 that indicates the gallons per day discharged to the spray irrigation zones.
 - C. Spray irrigation events shall consist of simultaneous operation of two zones with one zone left off for a week-long resting period. All zones shall be rested each month.
 - D. Application of the effluent shall be managed to prevent runoff from the permitted spray fields and ponding of effluent.
 - E. No irrigation is to occur on frozen soils.
 - F. No irrigation is to occur if more than 0.5 inches of rainfall has fallen during the previous 24 hours.
 - G. The operator is to assess soil moisture content and soil/vegetation conditions frequently. It is the operator's responsibility to inspect the fields on a routine basis to prevent and/or address damage to the irrigation fields.
 - H. The spray fields shall be maintained to ensure that vegetation does not interfere with or impair proper operation of the spray heads.
 - I. Fallen trees in wooded spray fields are required to be removed. All work must be conducted during dry or frozen soil conditions to prevent damage to the soil.
- XI. At all times, the wastewater level in the storage lagoon shall be managed within the low and high water level parameters as designed. The water level shall be controlled so that a freeboard of at least 24 inches is maintained at all times. The Department must be notified if the water level is anticipated to enter freeboard.

XII. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- A. The exact place, date, and time of sampling or measurement.
- B. The person(s) who performed the sampling or measurement.
- C. The dates the analyses were performed.
- D. The person(s) who performed the analyses.
- E. The analytical techniques or methods used.
- F. The results of such analyses.

XIII. Recordkeeping and Retention

The permittee shall keep records of operation and efficiency of the wastewater treatment facilities. All records of monitoring activities and results (including all original strip chart recordings for continuous monitoring instrumentation and calibration and maintenance records), copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained by the permittee for three (3) years. The three-year period shall be extended as requested by the Department.

XIV. The facility shall be operated under the charge of a responsible operator(s) certified under the Pennsylvania Water and Wastewater Systems Operations Certification Act (Act 11). The operator(s) shall comply with the continuing education requirements required under the regulations and guidelines related to Act 11.

XV. Laboratory Certification

Facilities that test or analyze environmental samples used to demonstrate compliance with this permit shall be in compliance with laboratory accreditation requirements of act 90 of 2002 (27 Pa. Code C.S. §§ 4101-4113) and 25 Pa. Code Chapter 252, relating to environmental laboratory accreditation. An environmental laboratory is any facility engaged in the testing or analysis of environmental samples required by a statute administered by the Department relating to the protection of the environment or of public health, safety, and welfare.

XVI. Right of Entry

Pursuant to Sections 5(b) and 305 of Pennsylvania's Clean Stream Law, the permittee shall allow authorized representatives of Department of Environmental Protection upon the presentation of credentials and other documents as may be required by law:

- A. To enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit.
- B. To have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit.
- C. To inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit.
- D. To sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act or The Clean Streams Law, any substances or parameters at any location.

XVII. If there is a change in ownership of this facility or in permittee name, an application for transfer of permit must be submitted to the Department.



3100 Horizon Drive
Suite 200
King of Prussia, PA 19406
T: 610-277-2402
F: 610-277-7449

www.pennoni.com

May 27, 2021

EWTPX 01003

Pravin Patel, PE, Permits Section
Southeast Regional Office
2 East Main Street
Norristown, PA 19401

**RE: Malvern Hunt Pump Station
East Whiteland Township, Chester County
Water Quality Management (WQM) Part II Permit Application**

Dear Mr. Patel:

On behalf of East Whiteland Township, please find enclosed the WQM Part II Permit Application for the existing Malvern Hunt Pump Station. The application has been submitted through the OnBase Forms Upload tool. The \$100 application fee will be mailed under a separate cover. In addition, a copy of the Application has also been sent to the Delaware River Basin Commission.

The application package includes the following:

1. Engineers Report.
2. PaDEP Permit Application General Information Form.
3. WQM Part II Permit Application
4. USGS 7.5' Topographic Map (Phoenixville, PA Quadrangle).
5. Act 14 Notifications
6. Record Drawings

Please note that the Malvern Hunt Pump Station is an existing station that was originally permitted in conjunction with the Water Quality Management (WQM) permit for the Malvern Hunt Wastewater Treatment plant. The Township has received approval to decommission the Treatment plant and divert the flows from this station to public sewer. This application is intended to create a new (separate) WQM permit for the pump station.

Should you require any further information, or have any questions, please feel free to contact me.

Sincerely,

PENNONI

Charles Faulkner, PE
Township Wastewater Engineer

CF/rkm

Cc: John Neild, Director of Public Works, via email
Delaware River Basin Commission

ENGINEER'S REPORT

for the
MALVERN HUNT
PUMP STATION

EAST WHITELAND TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA

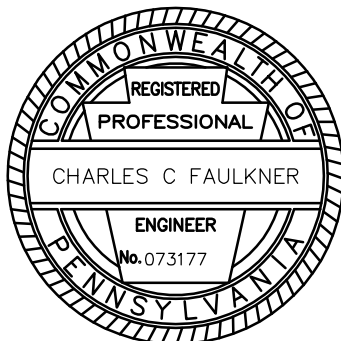
May 2021

EWTPX 01003

Prepared by:

Pennoni Associates Inc.

Consulting Engineers
1900 Market Street, Suite 300
Philadelphia PA 19103
www.Pennoni.com



Charles Faulkner

Charles C. Faulkner, PE
License No. PE-073177

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1.0 INTRODUCTION

This permit application is being submitted to establish a new Water Quality Management (WQM) Permit for the existing Malvern Hunt Pump Station. The current WQM Permit (WQM1599418) is for the pump station, influent bar screen, aerated treatment lagoon, a storage lagoon, chlorine disinfection and spray field. The Township desires to decommission the existing Malvern Hunt WWTP. To maintain the operations of the station a new WQM permit for the existing pump station is required.

East Whiteland Township is proposing to redirect all flows from the Malvern Hunt Wastewater Treatment Plant (WWTP) to the existing public sewer system. Wastewater would be conveyed through the Valley Creek Trunk sewer for treatment at Valley Forge Sewer Authority's wastewater treatment plant.

The WWTP treats an average of 46,000 GPD of wastewater from the Malvern Hunt residential development. The WWTP is permitted for the treatment of 105,000 GPD annual average with a hydraulic capacity of 128,000 GPD. The facility was constructed in 2000 by The Cutler Group who operated and maintained the facility until 2007 when ownership was transferred to East Whiteland Township. Flows to the WWTP consist entirely of sewage from the Malvern Hunt residential development; the plant does not receive flows from any other source.

In 2010, a 10-inch sewer extension was constructed along the Chester Valley Trail adjacent to the WWTP to serve the proposed Whiteland Village Retirement Community. The main was dedicated to East Whiteland Township. The main flows to the Mill Lane Pump Station, which conveys the flows through the Mathews Road meter to the Valley Creek trunk sewer and ultimately to the Valley Forge Wastewater Treatment Plant.

The WWTP influent pump station associated with the Malvern Hunt development will remain in its entirety. The existing 6-inch force main will be redirected and extended approximately 250 LF to the public sewer within the Chester Valley Trail. A manhole will be constructed on the 10-inch main to facilitate the connection. The WWTP will be abandoned in accordance with the closure plan approved by PADEP.

2.0 EXISTING WASTEWATER PUMPING STATION

Constructed in 2000, the Malvern Hunt Pump Station is located at 30 Corbin Drive, Malvern PA 19341. The station is bound by N Malvern Hunt Way on the north and Fairwind Lane on the South. Thus, station serves 279 residential homes. No future connections are projected. The station is a typical submersible type station, equipped with two (2) explosion proof pumps. Wastewater is discharged through a 6-inch force main which discharges into the Malvern Hunt WWTP. The pumps are rated at 300 gpm at 48.4 feet TDH.

Since the pump station was designed and constructed in 2000 and no future connections are projected, the basis of design year of 2000 was used to establish design capacity. Using the 2000 census data of 2.70 persons per household, 100 gpd per person and the 279 existing residential homes, the pump stations design average annual flow is 0.0753 MGD. From the PADEP Sewage Pumping Station Guidance a peaking factor of 3.87 was selected to establish a peak instantaneous

flow of 0.2914 MGD. Table 1 below shows the historic flows for the pump station. Over the last 5-years the average annual flow is 0.0455 MGD.

Table 1 – Malvern Hunt Pump Station Historic Flows

Malvern Hunt Pump Station Historic Flows					
Month	2015	2016	2017	2018	2019
January	46,006	44,600	46,900	45,300	46,400
February	44,542	48,800	43,900	48,600	44,900
March	48,405	40,500	45,200	45,900	47,600
April	41,969	43,300	42,300	46,000	41,200
May	42,980	46,800	45,900	64,700	47,800
June	45,394	53,200	44,800	46,500	47,700
July	41,507	44,900	44,300	46,500	43,600
August	40,948	44,900	44,380	46,500	39,400
September	43,269	44,900	42,400	46,500	40,800
October	44,883	54,600	43,600	43,700	43,000
November	43,706	46,900	42,900	50,200	43,400
December	46,442	47,900	45,600	47,500	45,700

Average Annal Flow (GPD)	44,171	46,775	44,348	48,158	44,292
Max 3 Month Ave Flow (GPD)	46,318	49,800	45,333	52,567	46,367

Malvern Hunt Pump Station consists of the following features:

A. Wetwell Chamber:

- The pump wet well is a below-grade, precast concrete structure (8'-0" Ø x 18'- 3" deep) with one to one slope chamfers.
- The wet well is equipped with a grinder unit on the 10" DIP influent line.

B. Valve Vault Chambers:

The first valve vault chamber is a detached below-grade, precast concrete structure (6'-0" Ø x 6'- 0" high) with access hatch and aluminum ladder.

There are two 6" check valves, two 6" gate valves and two pressure gauges installed. The effluent lines combine into a common 6-inch DIP force main.

The second valve vault chamber is a detached below-grade, precast concrete structure 4'-0" Ø housing the flow meter.

C. Force main:

Wastewater is discharged through approximately 2,725 linear foot 6-inch DIP force main which discharges into Malvern Hunt WWTP. Minimum velocities within the force main are approximately 3.1 feet per second at 300 gpm.

D. Site Property:

The site property is surrounded by a cyclone fence with barbed wire, under lock and key for security.

A masonry building exists for locating the station's electrical power controls, pump controls, auto dialer, diesel generator and storage supply equipment.

Lighting for the site is provided for any night work. Water service is provided at the site for wash-down of the pump station equipment.

An alarm system with automatic callout dialer notifies personnel of an emergency at the stations. The wetwell is monitored for low water level, high water level, and motor failure alarms, as well as for loss of electrical service, emergency generator shutdown and low fuel alarm.

4.0 FLOW DIVERSION

The Township plans to extend the force main approximately 250 LF to an existing 10-inch gravity main south of the WWTP property. The main is a tributary to Mill Lane Pump Station and will ultimately be treated at the Valley Forge Wastewater Treatment Plant.

A. DEP FORMS

Township

Permit Application



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

**APPLICATION FOR
WATER QUALITY MANAGEMENT PERMIT**

Before completing this form, read the step-by-step instructions provided in this application package.

Related ID#s (If Known)		DEP USE ONLY
Client ID# <u>78789</u>	APS ID# _____	Date Received & General Notes
Site ID# _____	Auth ID# _____	
Facility ID# _____		

APPLICANT IDENTIFIER

Application Type: <input type="checkbox"/> New <input checked="" type="checkbox"/> Modification <input type="checkbox"/> Renewal	Permit Number (if modification or renewal) <u>1599418</u>
Applicant Name: East Whiteland Township	
Current Mailing Address: 209 Conestoga Road, Frazer, PA 19355	
Current Phone Number: (610) 6480600	

FACILITY TYPE (Check all appropriate boxes below)

<input type="checkbox"/>	Treatment Plant Summary – Module 1
<input type="checkbox"/>	Sewer System – Module 2
<input type="checkbox"/>	Flow Equalization and Grit Chambers – Module 3
<input type="checkbox"/>	Screening and Settling – Module 4
<input type="checkbox"/>	Trickling Filters and Aeration – Module 5
<input type="checkbox"/>	Chemical Treatment – Module 6
<input type="checkbox"/>	Rapid Sand Filters – Module 7
<input type="checkbox"/>	Other Filters and Disinfection – Module 8
<input type="checkbox"/>	Aerobic Digestion Tanks – Module 9
<input type="checkbox"/>	Anaerobic Digestion – Module 10
<input type="checkbox"/>	Sludge Filters and Centrifuges – Module 11
<input type="checkbox"/>	Sludge Drying Beds – Module 12
<input type="checkbox"/>	Stream Encroachment and Crossings – Module 13
<input type="checkbox"/>	Spray Irrigation – Module 14
<input type="checkbox"/>	Industrial Wastewater Treatment Facility – Module 15
<input type="checkbox"/>	Small Flow Treatment Facility – Module 16
<input checked="" type="checkbox"/>	Sewer Extensions – Module 17
<input type="checkbox"/>	Manure Storage Facilities – Module 18
<input type="checkbox"/>	Supplementary Geology and Groundwater Information – Module 19
<input type="checkbox"/>	Impoundments – Module 20
<input type="checkbox"/>	Sequencing Batch Reactor – Module 21
<input checked="" type="checkbox"/>	Pump Stations – Module 22

Township

Permit Application

COMPLIANCE HISTORY REVIEW	
Is/was the facility owner or operator in violation of any DEP regulation, permit, order or schedule of compliance at this or any other facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If "Yes," list each permit, order and schedule of compliance and provide compliance status. Use additional sheets to provide information on all permits.	
Permit Program	Permit No.
Brief Description of Noncompliance	
Steps Taken to Achieve Compliance	Date(s) Compliance Achieved
Current Compliance Status <input checked="" type="checkbox"/> In Compliance <input type="checkbox"/> In Noncompliance	

CERTIFICATION (Check appropriate box below.)

I certify under penalty of law that I

- ☒ am the applicant
☐ am an officer or official of the applicant
☐ have the authority to make this application (attach delegation of signatory authority) and that the plans, reports and documents designated and attached here with part of the application are true and correct to the best of my knowledge and belief.

John Nagel

Township Manager

Name (type or print legibly)

Official Title


Signature

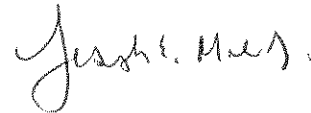
5/27/2021
Date

(Use corporate or professional seal as appropriate.)

Taken, sworn and subscribed before me, this 27th day of May 20 21

Notary Seal

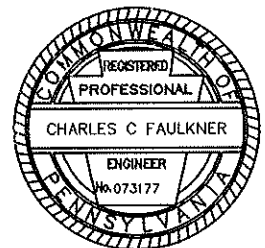
Commonwealth of Pennsylvania - Notary Seal
JOSEPH E. MILES JR - Notary Public
Chester County
My Commission Expires Jun 10, 2022
Commission Number 1334106

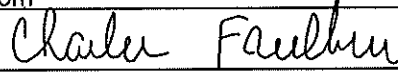


LICENSED PROFESSIONAL ENGINEER

This is to certify that I have personally reviewed all engineering information contained in the accompanying modules, drawings, specifications and other documents which are part of this application and that I have found it to be of good engineering quality, true and correct, and is in conformance with the requirements of the Department of Environmental Protection (DEP), and it does not, to the best of my knowledge, withhold information that is pertinent to a determination of compliance with the requirements of DEP.

Name of Design Engineer: Charels Faulkner
Design Firm: Pennoni Associates Inc.
Mailing Address: 1900 Market Street, Suite 300
Philadelphia, PA 19103
Telephone Number: (215) 254-7751
E-mail Address: CFaulkner@pennoni.com




Signature of Professional Engineer

NOTICE: It is an offense under Pennsylvania Criminal Code to affirm a false statement in documents submitted to DEP.

DEP will consider the licensed professional engineer whose seal is affixed to design documents to be fully responsible for the adequacy of all aspects of facility designs. The application and supporting documentation submitted for sewerage projects will be reviewed to ensure general consistency with good engineering practices, and the applicable design guidelines of DEP.



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

CHECKLIST FOR WATER QUALITY MANAGEMENT PERMIT

APPLICANT'S ✓ CHECKLIST		
APPLICANT NAME	East Whiteland Township	
<p>Check the following list to make sure that you have included all the required information. Place a checkmark in the column provided for all items completed and/or provided. Failure to provide all of the requested information will delay the processing of the application.</p> <p style="text-align: center;">ENCLOSE THIS CHECKLIST WITH YOUR APPLICATION FORM.</p>		
		Check ✓ If Included
		DEP Use Only
1.	General Information Form (GIF).	<input checked="" type="checkbox"/>
2.	Appropriate application fee, with check payable to the Commonwealth of PA	<input checked="" type="checkbox"/>
3.	Two (2) copies (original and 1 copy) of application, design module(s), and accompanying drawings and plans.	<input checked="" type="checkbox"/>
	a. Certification and proper signatures.	<input checked="" type="checkbox"/>
	b. Engineer's professional seal on each plan sheet.	<input checked="" type="checkbox"/>
	c. <i>Design Engineer's Report</i> with signature and seal on cover	<input checked="" type="checkbox"/>
	d. Properly notarized (original).	<input checked="" type="checkbox"/>
	e. Technical specifications with engineer's seal and signature on cover	<input checked="" type="checkbox"/>
	f. Additional copy for Delaware River Basin or Erie and Allegheny counties (if required).	<input checked="" type="checkbox"/>
4.	Supplemental Information:	<input checked="" type="checkbox"/>
	a. General Layout Diagram (unless design plans provide this information).	<input checked="" type="checkbox"/>
	b. Sizes, Capacities and Dimensions Diagram (unless design plans provide this information).	<input checked="" type="checkbox"/>
5.	Design Modules.	<input checked="" type="checkbox"/>
6.	Topographic map with appropriate details.	<input checked="" type="checkbox"/>
7.	Act 14 Notification.	<input checked="" type="checkbox"/>
8.	Act 537 Approval (if required).	<input checked="" type="checkbox"/>
9.	Cultural Resources Notification	<input checked="" type="checkbox"/>
10.	Acts 67, 68 and 127 Notification (IW and Manure Storage Facilities only).	<input type="checkbox"/>
11.	Proof of Public Notification (IW and Manure Storage Facilities only)	<input type="checkbox"/>
12.	DRBC Notification (if required).	<input checked="" type="checkbox"/>
13.	Other (specify):	<input type="checkbox"/>

Application



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

GENERAL INFORMATION FORM – AUTHORIZATION APPLICATION

Before completing this General Information Form (GIF), read the step-by-step instructions provided in this application package. This form is used by the Department of Environmental Protection (DEP) to inform our programs regarding what other DEP permits or authorizations may be needed for the proposed project or activity. This version of the General Information Form (GIF) must be completed and returned with any program-specific application being submitted to the DEP.

Related ID#s (If Known) Client ID# 78789 APS ID# _____ Site ID# _____ Auth ID# _____ Facility ID# _____		DEP USE ONLY Date Received & General Notes
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CLIENT INFORMATION

DEP Client ID# 78789	Client Type / Code MUNI	Dun & Bradstreet ID#	
Legal Organization Name or Registered Fictitious Name East Whiteland Township		Employer ID# (EIN) 236000322	Is the EIN a SSN? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> NO
State of Incorporation or Registration of Fictitious Name		<input type="checkbox"/> Corporation <input type="checkbox"/> LLC <input type="checkbox"/> Partnership <input type="checkbox"/> LLP <input type="checkbox"/> LP <input type="checkbox"/> Sole Proprietorship <input type="checkbox"/> Association/Organization <input type="checkbox"/> Estate/Trust <input type="checkbox"/> Other	
Individual Last Name	First Name	MI	Suffix
Additional Individual Last Name	First Name	MI	Suffix
Mailing Address Line 1 209 Conestoga Road		Mailing Address Line 2	
Address Last Line – City Frazer	State PA	ZIP+4 19355	Country USA
Client Contact Last Name Nagel	First Name John	MI	Suffix
Client Contact Title Township Manager	Phone 610-897-4205	Ext	Cell Phone
Email Address JNagel@EastWhiteland.org		FAX	

SITE INFORMATION

DEP Site ID#	Site Name Malvern Hunt Sewage Pump Station		
EPA ID#	Estimated Number of Employees to be Present at Site 1		
Description of Site Existing sewage pump station within the Malvern Hunt Development			
Tax Parcel ID(s): 42-003-0370.0000			
County Name(s)	Municipality(ies)	City	Boro
Chester	East Whiteland	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
Site Location Line 1 30 Corbin Drive		Site Location Line 2	
Site Location Last Line – City Malvern	State PA	ZIP+4 19341	
Detailed Written Directions to Site Heading north on US-202 N, take exit to US-30, turn left on US30, after 0.5 miles turn right on Valley Creek Blvd, after 0.7 miles turn right on Sweedesford Rd, after 0.4 miles turn left on N Malvern Hunt Way, take the first left turn onto Corbin Dr. The pump station is 0.4 miles on the left inbetween 28 and 32 Corbin Dr.			

Site Contact Last Name Nagel	First Name John	MI	Suffix
Site Contact Title Township Manager		Site Contact Firm East Whiteland Township	
Mailing Address Line 1 209 Conestoga Road		Mailing Address Line 2	
Mailing Address Last Line – City Frazer		State PA	ZIP+4 19355
Phone 610-897-4205	Ext	FAX	Email Address JNagel@EastWhiteland
NAICS Codes (Two- & Three-Digit Codes – List All That Apply)			6-Digit Code (Optional)

Client to Site Relationship
OWN

FACILITY INFORMATION

- | Modification of Existing Facility | Yes | No |
|--|-------------------------------------|--------------------------|
| 1. Will this project modify an existing facility, system, or activity? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Will this project involve an addition to an existing facility, system, or activity? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
- If "Yes", check all relevant facility types and provide DEP facility identification numbers below.

Facility Type	DEP Fac ID#	Facility Type	DEP Fac ID#
<input type="checkbox"/> Air Emission Plant		<input type="checkbox"/> Industrial Minerals Mining Operation	
<input type="checkbox"/> Beneficial Use (water)		<input type="checkbox"/> Laboratory Location	
<input type="checkbox"/> Blasting Operation		<input type="checkbox"/> Land Recycling Cleanup Location	
<input type="checkbox"/> Captive Hazardous Waste Operation		<input type="checkbox"/> Mine Drainage Treatment / Land Recycling Project Location	
<input type="checkbox"/> Coal Ash Beneficial Use Operation		<input type="checkbox"/> Municipal Waste Operation	
<input type="checkbox"/> Coal Mining Operation		<input type="checkbox"/> Oil & Gas Encroachment Location	
<input type="checkbox"/> Coal Pillar Location		<input type="checkbox"/> Oil & Gas Location	
<input type="checkbox"/> Commercial Hazardous Waste Operation		<input type="checkbox"/> Oil & Gas Water Poll Control Facility	
<input type="checkbox"/> Dam Location		<input type="checkbox"/> Public Water Supply System	
<input type="checkbox"/> Deep Mine Safety Operation -Anthracite		<input type="checkbox"/> Radiation Facility	
<input type="checkbox"/> Deep Mine Safety Operation -Bituminous		<input type="checkbox"/> Residual Waste Operation	
<input type="checkbox"/> Deep Mine Safety Operation -Ind Minerals		<input type="checkbox"/> Storage Tank Location	
<input type="checkbox"/> Encroachment Location (water, wetland)		<input checked="" type="checkbox"/> Water Pollution Control Facility	
<input type="checkbox"/> Erosion & Sediment Control Facility		<input type="checkbox"/> Water Resource	
<input type="checkbox"/> Explosive Storage Location		<input type="checkbox"/> Other:	

Latitude/Longitude Point of Origin	Latitude			Longitude		
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
	40	2	41	75	35	34
Horizontal Accuracy Measure	Feet			--or-- Meters		
Horizontal Reference Datum Code	<input type="checkbox"/> North American Datum of 1927 <input type="checkbox"/> North American Datum of 1983 <input type="checkbox"/> World Geodetic System of 1984					
Horizontal Collection Method Code	EMAP					
Reference Point Code	CNTAR					
Altitude	Feet 361.5			--or-- Meters		
Altitude Datum Name	<input type="checkbox"/> The National Geodetic Vertical Datum of 1929 <input checked="" type="checkbox"/> The North American Vertical Datum of 1988 (NAVD88)					
Altitude (Vertical) Location Datum Collection Method Code	SURVY					
Geometric Type Code	POINT					
Data Collection Date	1999					
Source Map Scale Number	Inch(es)			= Feet		
	--or-- Centimeter(s)			= Meters		

PROJECT INFORMATION

Project Name

Malvern Hunt Pump Station

Project Description

This permit application is required to establish a new Water Quality Management (WQM) Permit for the existing Malvern Hunt Pump Station. Currently the WQM Permit is grouped-in with the Malvern Hunt WWTP. The Township desires to decommission the WWTP and redirect flows from the pump station to the existing public sewer system via an approximately 250 LF extension of the force main for treatment at Valley Forge Sewer Authority WWTP.

Project Consultant Last Name

Faulkner

First Name

Charles

MI

Suffix

Project Consultant Title

Senior Engineer

Consulting Firm

Pennonni Associates Inc.

Mailing Address Line 1

1900 Market Street

Mailing Address Line 2

Suite 300

Address Last Line – City

Philadelphia

State

PA

ZIP+4

19103

Phone

215-254-7751

Ext

FAX

Email Address

CFaulkner@pennonni.com

Time Schedules

February 2021

Project Milestone (Optional)

537 Sewer Planning Approval

May 2021

WQM Part II Permit Approval

July 2021

Connect Existing Pump Station to Public Sewer

1. Is the project located in or within a 0.5-mile radius of an Environmental Justice community as defined by DEP?

☒ Yes ☐ No

To determine if the project is located in or within a 0.5-mile radius of an environmental justice community, please use the online [Environmental Justice Areas Viewer](#).

2. Have you informed the surrounding community prior to submitting the application to the Department?

☒ Yes ☐ No

Method of notification: Advertisement with sewage facility planning module

3. Have you addressed community concerns that were identified?

☐ Yes ☐ No ☒ N/A

If no, please briefly describe the community concerns that have been expressed and not addressed.

No public comments were received

4. Is your project funded by state or federal grants?

☐ Yes ☒ No

Note: If "Yes", specify what aspect of the project is related to the grant and provide the grant source, contact person and grant expiration date.

Aspect of Project Related to Grant

Grant Source: _____

Grant Contact Person: _____

Grant Expiration Date: _____

5. Is this application for an authorization on Appendix A of the Land Use Policy? (For referenced list, see Appendix A of the Land Use Policy attached to GIF instructions) ☒ Yes ☐ No

Note: If "No" to Question 5, the application is not subject to the Land Use Policy.

If "Yes" to Question 5, the application is subject to this policy and the Applicant should answer the additional questions in the Land Use Information section.

LAND USE INFORMATION

Note: Applicants should submit copies of local land use approvals or other evidence of compliance with local comprehensive plans and zoning ordinances.

1. Is there an adopted county or multi-county comprehensive plan? ☒ Yes ☐ No
2. Is there a county stormwater management plan? ☒ Yes ☐ No
3. Is there an adopted municipal or multi-municipal comprehensive plan? ☒ Yes ☐ No
4. Is there an adopted county-wide zoning ordinance, municipal zoning ordinance or joint municipal zoning ordinance? ☒ Yes ☐ No

Note: If the Applicant answers "No" to either Questions 1, 3 or 4, the provisions of the PA MPC are not applicable and the Applicant does not need to respond to questions 5 and 6 below.

If the Applicant answers "Yes" to questions 1, 3 and 4, the Applicant should respond to questions 5 and 6 below.

5. Does the proposed project meet the provisions of the zoning ordinance or does the proposed project have zoning approval? If zoning approval has been received, attach documentation. ☒ Yes ☐ No
6. Have you attached Municipal and County Land Use Letters for the project? ☐ Yes ☒ No

COORDINATION INFORMATION

Note: The PA Historical and Museum Commission must be notified of proposed projects in accordance with DEP Technical Guidance Document 012-0700-001 utilizing the [Project Review Form](#).

If the activity will be a mining project (i.e., mining of coal or industrial minerals, coal refuse disposal and/or the operation of a coal or industrial minerals preparation/processing facility), respond to questions 1.0 through 2.5 below.

If the activity will not be a mining project, skip questions 1.0 through 2.5 and begin with question 3.0.

- 1.0 Is this a coal mining project? If "Yes", respond to 1.1-1.6. If "No", skip to Question 2.0. ☐ Yes ☒ No
- 1.1 Will this coal mining project involve coal preparation/ processing activities in which the total amount of coal prepared/processed will be equal to or greater than 200 tons/day? ☐ Yes ☐ No
- 1.2 Will this coal mining project involve coal preparation/ processing activities in which the total amount of coal prepared/processed will be greater than 50,000 tons/year? ☐ Yes ☐ No
- 1.3 Will this coal mining project involve coal preparation/ processing activities in which thermal coal dryers or pneumatic coal cleaners will be used? ☐ Yes ☐ No
- 1.4 For this coal mining project, will sewage treatment facilities be constructed and treated waste water discharged to surface waters? ☐ Yes ☐ No
- 1.5 Will this coal mining project involve the construction of a permanent impoundment meeting one or more of the following criteria: (1) a contributory drainage area exceeding 100 acres; (2) a depth of water measured by the upstream toe of the dam at maximum storage elevation exceeding 15 feet; (3) an impounding capacity at maximum storage elevation exceeding 50 acre-feet? ☐ Yes ☐ No
- 1.6 Will this coal mining project involve underground coal mining to be conducted within 500 feet of an oil or gas well? ☐ Yes ☐ No
- 2.0 Is this a non-coal (industrial minerals) mining project? If "Yes", respond to 2.1-2.6. If "No", skip to Question 3.0. ☐ Yes ☒ No

2.1	Will this non-coal (industrial minerals) mining project involve the crushing and screening of non-coal minerals other than sand and gravel?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
2.2	Will this non-coal (industrial minerals) mining project involve the crushing and/or screening of sand and gravel with the exception of wet sand and gravel operations (screening only) and dry sand and gravel operations with a capacity of less than 150 tons/hour of unconsolidated materials?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
2.3	Will this non-coal (industrial minerals) mining project involve the construction, operation and/or modification of a portable non-metallic (i.e., non-coal) minerals processing plant under the authority of the General Permit for Portable Non-metallic Mineral Processing Plants (i.e., BAQ-PGPA/GP-3)?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
2.4	For this non-coal (industrial minerals) mining project, will sewage treatment facilities be constructed and treated waste water discharged to surface waters?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
2.5	Will this non-coal (industrial minerals) mining project involve the construction of a permanent impoundment meeting one or more of the following criteria: (1) a contributory drainage area exceeding 100 acres; (2) a depth of water measured by the upstream toe of the dam at maximum storage elevation exceeding 15 feet; (3) an impounding capacity at maximum storage elevation exceeding 50 acre-feet?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
3.0	Will your project, activity, or authorization have anything to do with a well related to oil or gas production, have construction within 200 feet of, affect an oil or gas well, involve the waste from such a well, or string power lines above an oil or gas well? If "Yes", respond to 3.1-3.3. If "No", skip to Question 4.0.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
3.1	Does the oil- or gas-related project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a watercourse, floodway or body of water (including wetlands)?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
3.2	Will the oil- or gas-related project involve discharge of industrial wastewater or stormwater to a dry swale, surface water, ground water or an existing sanitary sewer system or storm water system? If "Yes", discuss in <i>Project Description</i> .	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
3.3	Will the oil- or gas-related project involve the construction and operation of industrial waste treatment facilities?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
4.0	Will the project involve a construction activity that results in earth disturbance? If "Yes", specify the total disturbed acreage.	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
4.0.1	Total Disturbed Acreage 0.016				
4.0.2	Will the project discharge or drain to a special protection water (EV or HQ) or an EV wetland?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
4.0.3	Will the project involve a construction activity that results in earth disturbance in the area of the earth disturbance that are contaminated at levels exceeding residential or non-residential medium-specific concentrations (MSCs) in 25 Pa. Code Chapter 250 at residential or non-residential construction sites, respectively?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
5.0	Does the project involve any of the following: water obstruction and/or encroachment, wetland impacts, or floodplain project by the Commonwealth/political subdivision or public utility? If "Yes", respond to 5.1-5.7. If "No", skip to Question 6.0.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
5.1	Water Obstruction and Encroachment Projects – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a watercourse, floodway or body of water?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No

5.2	Wetland Impacts – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a wetland?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
5.3	Floodplain Projects by the Commonwealth, a Political Subdivision of the Commonwealth or a Public Utility – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a floodplain?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
5.4	Is your project an interstate transmission natural gas pipeline?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
5.5	Does your project consist of linear construction activities which result in earth disturbance in two or more DEP regions AND three or more counties?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
5.6	Does your project utilize Floodplain Restoration as a best management practice for Post Construction Stormwater Management?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
5.7	Does your project utilize Class V Gravity / Injection Wells as a best management practice for Post Construction Stormwater Management?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
6.0	Will the project involve discharge of construction related stormwater to a dry swale, surface water, ground water or separate storm water system?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
6.1	Will the project involve discharge of industrial waste stormwater or wastewater from an industrial activity or sewage to a dry swale, surface water, ground water or an existing sanitary sewer system or separate storm water system?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
7.0	Will the project involve the construction and operation of industrial waste treatment facilities?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
8.0	Will the project involve construction of sewage treatment facilities, sanitary sewers, or sewage pumping stations? If "Yes", indicate estimated proposed flow (gal/day). Also, discuss the sanitary sewer pipe sizes and the number of pumping stations/treatment facilities/name of downstream sewage facilities in the <i>Project Description</i> , where applicable.	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
8.0.1	Estimated Proposed Flow (gal/day) 45,000 avg.				
9.0	Will the project involve the subdivision of land, or the generation of 800 gpd or more of sewage on an existing parcel of land or the generation of an additional 400 gpd of sewage on an already-developed parcel, or the generation of 800 gpd or more of industrial wastewater that would be discharged to an existing sanitary sewer system?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
9.0.1	Was Act 537 sewage facilities planning submitted and approved by DEP? If "Yes" attach the approval letter. Approval required prior to 105/NPDES approval.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
10.0	Is this project for the beneficial use of biosolids for land application within Pennsylvania? If "Yes" indicate how much (i.e. gallons or dry tons per year).	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
10.0.1	Gallons Per Year (residential septage)				
10.0.2	Dry Tons Per Year (biosolids)				
11.0	Does the project involve construction, modification or removal of a dam? If "Yes", identify the dam.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
11.0.1	Dam Name				
12.0	Will the project interfere with the flow from, or otherwise impact, a dam? If "Yes", identify the dam.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
12.0.1	Dam Name				

13.0	Will the project involve operations (excluding during the construction period) that produce air emissions (i.e., NOX, VOC, etc.)?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
13.0.1	If "Yes", is the operation subject to the agricultural exemption in 35 P.S. § 4004.1?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
13.0.2	If the answer to 13.0.1 is "No", identify each type of emission followed by the estimated amount of that emission. Enter all types & amounts of emissions; separate each set with semicolons.				
14.0	Does the project include the construction or modification of a drinking water supply to serve 15 or more connections or 25 or more people, at least 60 days out of the year? If "Yes", check all proposed sub-facilities.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
14.0.1	Number of Persons Served				
14.0.2	Number of Employee/Guests				
14.0.3	Number of Connections				
14.0.4	Sub-Fac: Distribution System	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.5	Sub-Fac: Water Treatment Plant	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.6	Sub-Fac: Source	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.7	Sub-Fac: Pump Station	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.8	Sub Fac: Transmission Main	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.9	Sub-Fac: Storage Facility	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
15.0	Will your project include infiltration of storm water or waste water to ground water within one-half mile of a public water supply well, spring or infiltration gallery?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
16.0	Is your project to be served by an existing public water supply? If "Yes", indicate name of supplier and attach letter from supplier stating that it will serve the project.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
16.0.1	Supplier's Name				
16.0.2	Letter of Approval from Supplier is Attached	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
17.0	Will this project be served by on-lot drinking water wells?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
18.0	Will this project involve a new or increased drinking water withdrawal from a river, stream, spring, lake, well or other water bod(ies)? If "Yes", reference Safe Drinking Water Program.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
18.0.1	Source Name				
19.0	Will the construction or operation of this project involve treatment, storage, reuse, or disposal of waste? If "Yes", indicate what type (i.e., hazardous, municipal (including infectious & chemotherapeutic), residual) and the amount to be treated, stored, re-used or disposed.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
19.0.1	Type & Amount				
20.0	Will your project involve the removal of coal, minerals, contaminated media, or solid waste as part of any earth disturbance activities?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
21.0	Does your project involve installation of a field constructed underground storage tank? If "Yes", list each Substance & its Capacity. Note: Applicant may need a Storage Tank Site Specific Installation Permit.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
21.0.1	Enter all substances & capacity of each; separate each set with semicolons.				

22.0	Does your project involve installation of an aboveground storage tank greater than 21,000 gallons capacity at an existing facility? If "Yes", list each Substance & its Capacity. Note: Applicant may need a Storage Tank Site Specific Installation Permit. 22.0.1 Enter all substances & capacity of each; separate each set with semicolons.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
23.0	Does your project involve installation of a tank greater than 1,100 gallons which will contain a highly hazardous substance as defined in DEP's Regulated Substances List, 2570-BK-DEP2724? If "Yes", list each Substance & its Capacity. Note: Applicant may need a Storage Tank Site Specific Installation Permit. 23.0.1 Enter all substances & capacity of each; separate each set with semicolons.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
24.0	Does your project involve installation of a storage tank at a new facility with a total AST capacity greater than 21,000 gallons? If "Yes", list each Substance & its Capacity. Note: Applicant may need a Storage Tank Site Specific Installation Permit. 24.0.1 Enter all substances & capacity of each; separate each set with semicolons.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
NOTE: If the project includes the installation of a regulated storage tank system, including diesel emergency generator systems, the project may require the use of a Department Certified Tank Handler. For a full list of regulated storage tanks and substances, please go to www.dep.pa.gov search term storage tanks					
25.0	Will the intended activity involve the use of a radiation source?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No

CERTIFICATION

I certify that I have the authority to submit this application on behalf of the applicant named herein and that the information provided in this application is true and correct to the best of my knowledge and information.

For applicants supplying an EIN number: I am applying for a permit or authorization from the Pennsylvania Department of Environmental Protection (DEP). As part of this application, I will provide DEP with an accurate EIN number for the applicant entity. By filing this application with DEP, I hereby authorize DEP to confirm the accuracy of the EIN number provided with the Pennsylvania Department of Revenue. As applicant, I further consent to the Department of Revenue discussing the same with DEP prior to issuance of the Commonwealth permit or authorization.

Type or Print Name Charles Faulkner

Charles Faulkner

Signature

Senior Engineer

Title

04/01/2021

Date

Checklist


 COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION

**GENERAL INFORMATION FORM -- AUTHORIZATION APPLICATION
 APPLICANT'S CHECKLIST**

This final checklist is to assist the applicant in assuring that all requests for responses, contacts, additional documentation, etc. have been addressed. Please check the following list to make sure that you have included all the required information. Failure to provide all of the requested information will delay the processing of the application and may result in the application being placed on hold with no action, or will be considered withdrawn and the application file closed. This applicant's checklist need not be returned to DEP with your completed application.

REQUIREMENTS	
<input checked="" type="checkbox"/>	1. ATTACHMENTS. The completion of the GIF may require the submission of some or all of the following. Where appropriate, include the appropriate attachment(s) with the completed GIF.
<input checked="" type="checkbox"/>	a) Site Information, Written Directions to Site – Attach additional sheets as necessary.
<input checked="" type="checkbox"/>	b) Facility Information, Latitude/Longitude – Attach additional sheets as necessary.
<input checked="" type="checkbox"/>	c) Project Information, Project Description – Attach additional sheets as necessary.
<input checked="" type="checkbox"/>	d) Project Information, Time Schedules -- Attach additional sheets as necessary.
<input checked="" type="checkbox"/>	e) Land Use Information – Please attached completed County and Municipal Land Use Letters. If County and Municipal Land Use Letters are not included, please attach documentation indicating zoning approval (for early opt-out option), or certified mail receipts indicating that requests for County and Municipal Land Use Letters were sent to the county and municipality. For more information, see GIF Instructions and the Department's Policy for Consideration of Local Comprehensive Plans and Zoning Ordinances in DEP Review of Authorizations for Facilities and Infrastructure – Document ID: 012-0200-001.
<input checked="" type="checkbox"/>	f) Coordination Information - If land is disturbed, it may be the applicant's responsibility to also notify the PA Historical and Museum Commission, Bureau of Historic Preservation, 400 North Street, Floor 2, Harrisburg, PA 17120-0093, (717) 787-3362.
	PHMC notification is required for construction activities that have not been exempted under DEP's Policy for PHMC and DEP Coordination During Permit Application Review and Evaluation of Historic Resources :
	For additional information, see Project Review Form instructions to determine whether submission of information to PHMC is required for this permit application.
<input checked="" type="checkbox"/>	g) Coordination Information, Question 9.0.1 – Attach copy – Act 537 Approval Letter. <u>Note</u> : Approval required prior to 105/NPDES approval.
<input type="checkbox"/>	h) Coordination Information, Question 16.0.2 – Attach copy – Public Water Supplier's Agreement Letter to Serve the Project.
<input checked="" type="checkbox"/>	2. CONTACTS MADE. According to information provided in the Coordination Information section, the appropriate DEP office may need to be contacted; as well as some agencies outside DEP. See the Instructions document for appropriate contact per coordination question.
	In addition to contacts referenced above, prior to proceeding with any project, DEP encourages applicants to be in touch with municipal and county governments to get information on and secure, if possible, any local permits or approvals that might be required for the project. By doing so, potential conflicts at the local level can be resolved prior to application submission to DEP.
<input checked="" type="checkbox"/>	3. BEFORE YOU DIG -- CONTACT. Pennsylvania One Call System at 1-800-242-1776.
<input checked="" type="checkbox"/>	4. APPLICATION SUBMITTED. Application has been completed and properly signed according to instructions and type codes; and will be submitted to the appropriate DEP office.



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

SEWER EXTENSIONS
MODULE 17

APPLICANT NAME		East Whiteland Township					
PROJECT INFORMATION							
<i>If the project is associated with existing or proposed residential or industrial development, complete the following:</i>							
Name of Development		Malvern Hunt					
Type of Development		Residential					
Number of Units		279		Project Acreage			
BASIS OF DESIGN							
Design Year: 2000				Design Population: 753			
SEWER SYSTEM							
1. CLASS OF CONSTRUCTION		<input type="checkbox"/> NEW SYSTEM		<input type="checkbox"/> REPLACEMENT OF EXISTING SYSTEMS		<input checked="" type="checkbox"/> SANITARY	
2. INITIAL POPULATION 753		DESIGN YEAR POPULATION 753					
3. List the WQM permit number of the sewer to which this system connects.						E15-821	
4. List the WQM permit number of the treatment facility receiving flow from this system.						1599422 1599422A2	
5. What is the reserve capacity of the most limiting component between this connection and the treatment facility?						Valley Creek Trunk Sewer (see attached capacity letters)	
6. LOCATION							
USGS Quadrangle Name		Malvern					
Latitude/Longitude of Connection Point		Latitude			Longitude		
		Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
		40	2	41	78	35	34
7. DESIGN FLOW DATA							
a. Laterals and Submain Sewers		(GPCD)					
b. Average Daily Flow		(mgd)		0.0753			
c. Infiltration/Inflow (I/I)		(mgd)					
d. Industrial Waste Flow		(mgd)					
e. Total Average Design Flow		(mgd)		0.0753			
f. Maximum Expected Flowrate (Peak Instantaneous)		(mgd)		0.2914			
8. Describe measures taken to minimize I/I in the system including leakage test and reference applicable portion of the specifications.							
The tie-in point, Whiteland Village Sewer Extension, was installed in 2009. During construction the sewer was pressure tested and manholes were vacuum tested to minimize I/I. All new lines installed will be pressure tested and manholes will be vacuum tested to minimize I/I.							



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

**PUMP STATIONS
MODULE 22**

APPLICANT NAME		East Whiteland Township			
PUMP STATION (Submit separate module for each pump station.)					
1. PUMP STATION NAME: Malvern Hunt Pump Station					
2. List the WQM permit number of the sewer to which this system connects.					E15-821
3. List the WQM permit number of the treatment facility receiving flow from this system.					1599422 1599422 A2
4. What is the reserve capacity of the most limiting component between this connection and the treatment facility?					Valley Creek Trunk Sewer (See attached capacity Letters)
5. LOCATION (street name, etc.): Corbin Drive, Malvern PA 19341					
USGS Quadrangle Name			Malvern		
Latitude/Longitude of Pump Station	Latitude			Longitude	
	Degrees	Minutes	Seconds	Degrees	Minutes
	40	2	41	78	35
Latitude/Longitude of Connection Point	Latitude			Longitude	
	Degrees	Minutes	Seconds	Degrees	Minutes
	40	2	28	75	35
6. TYPE (e.g., conventional, suction lift, ejector or submersible): submersible					
7. INITIAL POPULATION TO BE SERVED: 753 DESIGN YEAR: 2000			FUTURE POPULATION TO BE SERVED:		
8. DESIGN INFORMATION:		AVG (mgd)		MAX (Peak Instantaneous) (mgd)	
a. Domestic Flowrate (based on design population to be served)		0.0753		0.2914	
b. Industrial Flowrate					
c. Infiltration/Inflow (I/I) Rate					
d. Design Flowrate					
e. Effective Wet Well Capacity		(gal) 1,691			
f. Detention Time		(min) 5.64			
g. Design Average Velocity in Force Main		(fps) 3.1			
h. Total Dynamic Head (Pump Station + Force Main)		Static Head 12.5 ft			
		Friction Loss 35.9 ft			
		TDH 48.4 ft			
i. Diameter of Force Main		6 inches			
9. Describe the proposed project with respect to the 100-year flood elevation, ventilation, emergency power provision and alarm system. The Existing pump station is outside the 100-year flood elevation. The station is submersible, the wet well is vented through the building roof. They system has a emergency diesel generator and alarm dialer currently.					

PUMPS												
LIST ALL THE PUMPS IN THE PUMPING STATION												
N U M B E R O F I D E N T I C A L P U M P S	Describe Pump Use	Type of Pump	Check Columns That Apply To Each Pump								Pump Capacity	
			E X I S T I N G	P R O P O S E D	V A R I A B L E S P E E D	C O N S T A N T S P E E D	A U T O M A T I C C O N T R O L	M A N U A L C O N T R O L	P N E U M A T I C E J E C T O R	S T A N D B Y	gpm	TDH (ft)
2	Raw wastewater transfer	Submersible	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	300	48.4
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		



1900 Market Street
Suite 300
Philadelphia, PA 19104
T: 215-222-3000
F: 215-222-3588

www.pennoni.com

April 1, 2021

EWTPX 01003

CERTIFIED MAIL/RETURN RECEIPT

John Nagel, Township Manager
East Whiteland Township
209 Conestoga Road
Frazer, PA 19355

**RE: Act 14 Notification
Application for Water Quality Management Permit
Malvern Hunt Pump Station Redirection**

Dear Mr. Nagel:

The purpose of this notification is to inform you of our intent to submit a Water Quality Management Permit (WQMP) application to the Pennsylvania Department of Environmental Protection (DEP) for the following:

Application Type: WQMP

Applicant Name: East Whiteland Township

Facility Name: Malvern Hunt Pump Station

Facility Address: 30 Corbin Drive

Municipality: East Whiteland Township

County: Chester

Description of Project: This permit application is required to establish a new Water Quality Management (WQM) Permit for the existing Malvern Hunt Pump Station. Currently the WQM Permit is grouped-in with the Malvern Hunt WWTP. The Township desires to decommission the WWTP and redirect flows from the WWTP to the existing public sewer system via an approximately 250 LF extension of the force main for treatment at Valley Forge Sewer Authority WWTP.

This notice is required by Act 14, which amended the Commonwealth of Pennsylvania Administrative Code. Act 14 requires that each applicant for a DEP permit give written notice to the municipality and the county in which the permitted activity is located. The written notices must be received by the Municipality and County at least 30 days before the DEP may issue or deny a permit.

If you have any questions, please contact the Pennsylvania Department of Environmental Protection (DEP) at the office below:

Southeast Regional Office
2 East Main Street
Norristown, PA 19401

Sincerely,

PENNONI ASSOCIATES INC.

Charles Faulkner, PE
Senior Engineer

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1900 Market Street
Suite 300
Philadelphia, PA 19104
T: 215-222-3000
F: 215-222-3588

www.pennoni.com

April 1, 2021

EWTPX 01003

CERTIFIED MAIL/RETURN RECEIPT

Marian Moskowitz, Chair
Chester County Commissioner
313 West Market Street Suite 6202
West Chester, PA 19380

**RE: Act 14 Notification
Application for Water Quality Management Permit
Malvern Hunt Pump Station Redirection**

Dear Mrs. Moskowitz:

The purpose of this notification is to inform you of our intent to submit a Water Quality Management Permit (WQMP) application to the Pennsylvania Department of Environmental Protection (DEP) for the following:

Application Type: WQMP

Applicant Name: East Whiteland Township

Facility Name: Malvern Hunt Pump Station

Facility Address: 30 Corbin Drive

Municipality: East Whiteland Township

County: Chester

Description of Project: This permit application is required to establish a new Water Quality Management (WQM) Permit for the existing Malvern Hunt Pump Station. Currently the WQM Permit is grouped-in with the Malvern Hunt WWTP. The Township desires to decommission the WWTP and redirect flows from the WWTP to the existing public sewer system via an approximately 250 LF extension of the force main for treatment at Valley Forge Sewer Authority WWTP.

This notice is required by Act 14, which amended the Commonwealth of Pennsylvania Administrative Code. Act 14 requires that each applicant for a DEP permit give written notice to the municipality and the county in which the permitted activity is located. The written notices must be received by the Municipality and County at least 30 days before the DEP may issue or deny a permit.

If you have any questions, please contact the Pennsylvania Department of Environmental Protection (DEP) at the office below:

Southeast Regional Office
2 East Main Street
Norristown, PA 19401

Sincerely,

PENNONI ASSOCIATES INC.

Charles Faulkner, PE
Senior Engineer

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1900 Market Street
Suite 300
Philadelphia, PA 19104
T: 215-222-3000
F: 215-222-3588

www.pennoni.com

April 1, 2021

EWTPX 01003

CERTIFIED MAIL/RETURN RECEIPT

David Kovach, Water Resource Management Manager, Project Review
DRBC
P.O. Box 7360
West Trenton, NJ 08628-0360

**RE: DRBC Notification
Application for Water Quality Management Permit
Malvern Hunt Pump Station Redirection**

Dear Mr. Kovach:

The purpose of this notification is to inform you of our intent to submit a Water Quality Management Permit (WQMP) application to the Pennsylvania Department of Environmental Protection (DEP) for the following:

Application Type: WQMP

Applicant Name: East Whiteland Township

Facility Name: Malvern Hunt Pump Station

Facility Address: 30 Corbin Drive

Municipality: East Whiteland Township

County: Chester

Description of Project: This permit application is required to establish a new Water Quality Management (WQM) Permit for the existing Malvern Hunt Pump Station. Currently the WQM Permit is grouped-in with the Malvern Hunt WWTP. The Township desires to decommission the WWTP and redirect flows from the WWTP to the existing public sewer system via an approximately 250 LF extension of the force main for treatment at Valley Forge Sewer Authority WWTP.

This notice is required by Act 14, which amended the Commonwealth of Pennsylvania Administrative Code. Act 14 requires that each applicant for a DEP permit give written notice to the municipality and the county in which the permitted activity is located. The written notices must be received by the Municipality and County at least 30 days before the DEP may issue or deny a permit.

If you have any questions, please contact the Pennsylvania Department of Environmental Protection (DEP) at the office below:

Southeast Regional Office
2 East Main Street
Norristown, PA 19401

Sincerely,

PENNONI ASSOCIATES INC.

Charles Faulkner, PE

Senior Engineer

U:\Accounts\EWTPX\EWTPX01003 - Malvern Hunt WWTP\DOC PREP\WQM Permit Application\Act 14s\DRBC Notification WQMP.doc

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

John Nagel, Township Manager
East Whiteland Township
209 Conestoga Road
Frazer, PA 19355



9590 9402 6057 0125 2637 91

2. Article Number (Transfer from service label)

7017 3380 0000 9200 5801

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

RM - EWTPX 01003

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Marian Moskowitz, Chair
Chester County Commissioner
313 West Market Street Suite 6202
West Chester, PA 19380



9590 9402 6057 0125 2625 89

2. Article Number (Transfer from service label)

7017 3380 0000 9200 5795

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

RM EWTPX 01003

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

David Kovach, Water Resource
Management Manager, Project Review
DRBC
P.O. Box 7360
West Trenton, NJ 08628-0360



9590 9402 6057 0125 2625 96

2. Article Number (Transfer from service label)

7017 3380 0000 9200 5788

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent☐ Addressee

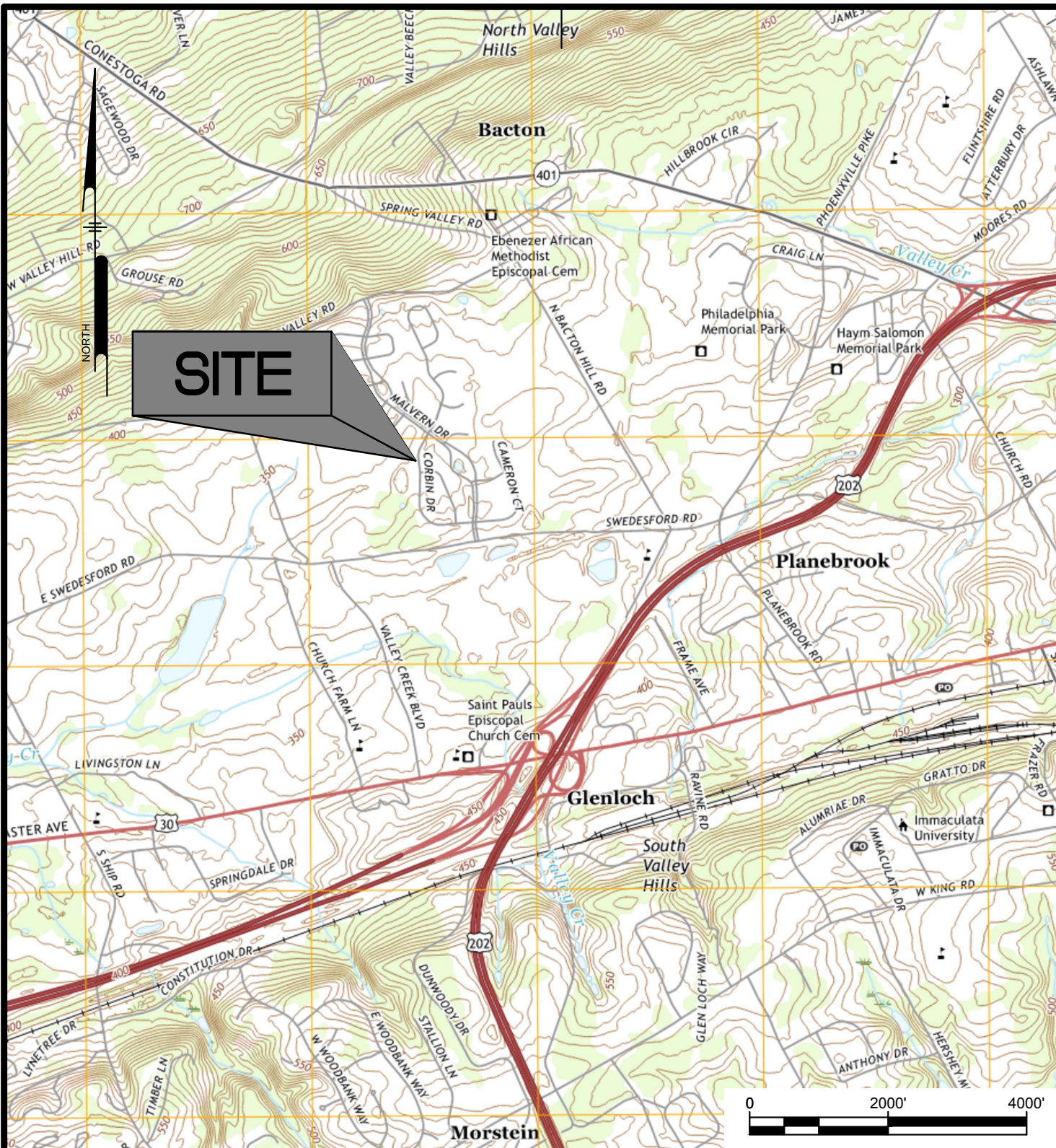
B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

☐ Adult Signature☐ Adult Signature Restricted Delivery☒ Certified Mail®☐ Certified Mail Restricted Delivery☐ Collect on Delivery☐ Collect on Delivery Restricted Delivery☐ Insured Mail☐ Insured Mail Restricted Delivery (over \$500)☐ Priority Mail Express®☐ Registered Mail™☐ Registered Mail Restricted Delivery☐ Return Receipt for Merchandise☐ Signature Confirmation™☐ Signature Confirmation Restricted Delivery



PENNONI ASSOCIATES INC.
1900 Market Street, Suite 300
Philadelphia, PA 19103
T 215.222.3000 F 215.222.3588

ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON THE EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO PENNONI ASSOCIATES; AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

MALVERN HUNT PUMP STATION REDIRECTION
CORBIN DRIVE
CHADDS FORD, PA 19317

LOCATION MAP

EAST WHITELAND TOWNSHIP
209 CONESTOGA ROAD
FRAZER, PA 19355

PROJECT	EWTPX01003
DATE	2020-11-11
DRAWING SCALE	1"=2000'
DRAWN BY	RKM
APPROVED BY	CF

G-1000

SHEET 1 OF 1



Pennsylvania
Historical & Museum
Commission

PROJECT REVIEW FORM

Request to Initiate SHPO Consultation on State and Federal Undertakings

SHPO USE ONLY

Reviewers: _____/_____

DATE RECEIVED: 4/15/20

DATE DUE: 5/14/20

ER NUMBER: 2020-1324-029-A

HRSF: ☐

REV: 03/2020

SECTION A: PROJECT NAME & LOCATION

Is this a new submittal? ☒ YES ☐ NO OR ☐ This is additional information for ER Number:

Project Name Malvern Hunt WWTP Decommissioning County Chester Municipality East Whiteland
Project Address East Swedesford Road City/State/ Zip Exton PA 19341

SECTION B: CONTACT INFORMATION & MAILING ADDRESS

Name Charles Faulkner, PE Phone (215) 254-7751
Company Pennoni Fax
Street/PO Box 1900 Market Street, Suite 300 Email Cfaulkner@pennoni.com
City/State/Zip Philadelphia PA 19103 Email cc: JNeild@eastwhiteland.org

SECTION C: PROJECT DESCRIPTION

This project is located on: ☐ Federal property ☐ State property ☐ Municipal property ☐ Private property
(check all that apply)

List all federal and state agencies and programs providing funds, permits, licenses.	Agency Type	Agency/Program/Permit Name	Project/Permit/Tracking Number (if applicable)
	State	PADEP/ Bureau of Point/Non Point Source Ma	Site ID #527339/Permit NO #1599418

Proposed Work – Attach project description, scope of work, site plans, and/or drawings

Project includes (check all that apply): ☒ Construction ☐ Demolition ☐ Rehabilitation ☐ Disposition

Total acres of project area: 13.74 Total acres of earth disturbance: 5.23 ac

Are there any buildings or structures within the project area? ☒ Yes ☐ No Approximate age of buildings: 30

Does this project involve properties listed in or eligible for the National Register of Historic Places, or locally designated? Inventory here: <https://gis.penndot.gov/crgis>
Yes ☐ No ☒ Unsure ☐ Name _____
Key Number _____

Please email this form and pdf attachments to:

RA-PH-PASHPO-ER@pa.gov

Or, please print and mail completed form and all attachments to:

PHMC- PA State Historic Preservation Office
400 North Street
Commonwealth Keystone Building, 2nd Floor
Harrisburg, PA 17120-0093

Attachments – Please include the following information with this form

- ☒ Map – 7.5' USGS quad, streetmap, or parcel map showing the project's Area of Potential Effect
- ☒ Description/Scope of Work– Narrative description of the project, including any ground disturbance and previous land use, and any potential to impact historic resources
- ☒ Site Plans/Drawings – Indicate location and age of buildings, any proposed improvements, and past and present land use
- ☒ Photographs – Attach digital photographs of the project site, including images of all buildings and structures keyed to a site plan, for buildings older than 50 years use the Abbreviated HRSF

SHPO DETERMINATION (SHPO USE ONLY)

☐ There are **NO HISTORIC PROPERTIES** in the Area of Potential Effect ☐ The project will have **NO ADVERSE EFFECTS WITH CONDITIONS** (see attached)
☒ The project will have **NO EFFECT** on historic properties ☐ **SHPO REQUESTS ADDITIONAL INFORMATION** (see attached)
☐ The project will have **NO ADVERSE EFFECTS** on historic properties: _____ Key# _____

DIVISION CHIEF, ENVIRONMENTAL REVIEW:

DATE: 4/16/20

SHPO REVIEWER: SC

SENT VIA ELECTRONIC MAIL ONLY

February 26, 2021

Mr. John Nagel, Manager
East Whiteland Township
209 Conestoga Road
Frazer, PA 19355-1699

Re: Approval Letter – Minor Act 537 Plan Update
Decommissioning of Malvern Hunt Wastewater Treatment Plant
Special Study
Status: ISSUED
APS No. 38912, AUTH ID No. 1344008
East Whiteland Township
Chester County

Dear Mr. Nagel:

We have completed our review of your municipality's Act 537 Special Study for the Decommissioning of Malvern Hunt Wastewater Treatment Plant for East Whiteland Township ("Township"), Chester County, as prepared by Pennoni Associates, Inc. The plan was received by the Department of Environmental Protection ("DEP") on October 23, 2020. Additional information in support of this plan was received by DEP on February 1, 2021, February 10, 2021 and February 25, 2021. This plan is being submitted to the Department in accordance with the provisions set forth by Section 5 of the Pennsylvania Sewage Facilities Act and Chapter 71, the Administration of Sewage Facilities Program. The review was conducted in accordance with the provisions of the Pennsylvania Sewage Facilities Act.

Approval of the plan is hereby granted.

The plan provides for the decommissioning of the Malvern Hunt Wastewater Treatment Plant ("WWTP") and the connection of the Malvern Hunt development to the Township public sewer system. The existing 279 residential units within the Malvern Hunt development will connect via the existing influent pump station and an approximately 250 linear foot extension of the existing six-inch pump station force main that will connect into the existing ten-inch interceptor sewer located within the Chester Valley Trail adjacent to the WWTP lagoons.

This project will be connected to the Township's collection system and will generate 76,725 gallons of sewage per day to be treated at the Valley Forge Sewer Authority Wastewater Treatment Facility.

The existing Malvern Hunt collection and conveyance system including the pump station and force main will continue to be owned by the Township. The parcels containing the WWTP's storage lagoons and spray fields will also continue to be owned by the Township. The Township has stated that there are no redevelopment plans for either the WWTP storage lagoon parcel or the spray field parcel at this time. Should the Township consider redevelopment of either parcel in the future, the Township will contact DEP in order to determine if additional sewage facilities planning is required.

The decommissioning of the WWTP and connection of the existing development to the public sewer system shall be completed consistent with the implementation schedule received by DEP on February 1, 2021.

We ask that the Township submit an acceptable closure plan for the WWTP, storage lagoons and spray system. Unless otherwise directed to electronically submit the closure plan, mail the plan to: Department of Environmental Protection, Clean Water Program, 2 East Main Street, Norristown, PA 19401 (attention: Permits Section). The permittee must develop and submit a Closure Plan to DEP describing how and when the sewage treatment facility will be closed with a proposed schedule.

This approval is specifically made contingent upon the applicant acquiring all necessary property rights by easement or otherwise, providing for the satisfactory construction, operation, maintenance, and replacement of all sewerage structures associated with the approved discharge in, along, or across private property, with full rights of ingress, egress and regress.

Any person aggrieved by this action may appeal the action to the Environmental Hearing Board (Board), pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. § 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A. The Board's address is:

Environmental Hearing Board
Rachel Carson State Office Building, Second Floor
400 Market Street
P.O. Box 8457
Harrisburg, PA 17105-8457

TDD users may contact the Environmental Hearing Board through the Pennsylvania Relay Service, 800-654-5984.

Appeals must be filed with the Board within 30 days of receipt of notice of this action unless the appropriate statute provides a different time. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

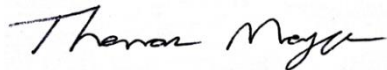
A Notice of Appeal form and the Board's rules of practice and procedure may be obtained online at <http://ehb.courtapps.com> or by contacting the Secretary to the Board at 717-787-3483. The Notice of Appeal form and the Board's rules are also available in braille and on audiotape from the Secretary to the Board.

IMPORTANT LEGAL RIGHTS ARE AT STAKE. YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD AT 717-787-3483 FOR MORE INFORMATION. YOU DO NOT NEED A LAWYER TO FILE A NOTICE OF APPEAL WITH THE BOARD.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST BE FILED WITH AND RECEIVED BY THE BOARD WITHIN 30 DAYS OF RECEIPT OF NOTICE OF THIS ACTION.

If you have any questions, please contact Ms. Kelly Boettlin of this office at 484.250.5184 or at kboettlin@pa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Thomas Magge". The signature is fluid and cursive, with the first name "Thomas" and last name "Magge" clearly distinguishable.

Mr. Thomas Magge
Regional Manager
Clean Water

cc: Mr. Skiljo - Chester County Health Department (via email)
Ms. Conwell - Chester County Planning Commission (via email)
Mr. Strohmaier - Chester County Conservation District (via email)
Mr. Stoltz - Valley Forge Sewer Authority (via email)
Mr. Bubel - Aqua America (via email))
Mr. Burgo - Tredyffrin Township (via email)
Mr. Faulkner - Pennoni Associates, Inc. (via email)
Mr. Neild - East Whiteland Township (via email)
RCSOB, 11th Floor, Sewage Facilities, Attn.: Janice Vollero (via email)
Planning Section
Re



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

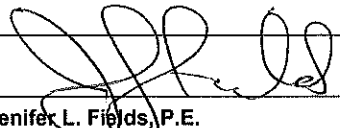
**WATER QUALITY MANAGEMENT
PERMIT**

PERMIT NO. 1599418

AMENDMENT NO. _____

APS ID. 916602

AUTH. ID. 1139890

A. PERMITTEE (Name and Address): East Whiteland Township 209 Conestoga Road Frazer, PA 19355		CLIENT ID#: 78789	B. PROJECT/FACILITY (Name): Malvern Hunt WWTP	
C. LOCATION (Municipality, County): East Whiteland Township, Chester County			SITE ID#: 527339	
D. THIS PERMIT APPROVES THE OPERATION OF SEWAGE FACILITIES CONSISTING OF: The Malvern Hunt Pump Station with comminutor, an influent bar screen, a two sell aerated treatment lagoon, a storage lagoon, a chlorine disinfection system, and spray fields.				
Pump Stations: _____ Design Capacity: _____ GPM		Manure Storage: Volume: _____ MG Freeboard: _____ inches	Sewage Treatment Facility: Annual Average Flow: <u>0.105</u> MGD Design Hydraulic Capacity: <u>0.128</u> MGD Design Organic Capacity: <u>222</u> lb/day	
E. APPROVAL GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING: 1. Permit Renewal: All operations and procedures shall be in accordance with the Water Quality Management Permit application dated <u>5/23/2016</u> , its supporting documentation and addendums dated _____, which are hereby made a part of this permit. Amendments: All construction, operations and procedures shall be in accordance with the Water Quality Management Permit Amendment application dated _____ and its supporting documentation and addendums dated _____, which are hereby made a part of this amendment. Except for any herein approved modifications, all terms, conditions, supporting documentation and addendums approved under Water Quality Management Permit No. _____ dated _____ shall remain in effect. Transfers: Water Quality Management Permit No. _____ dated _____ and conditions, supporting documentation and addendums are also made part of this transfer. 2. Permit Conditions Relating to Sewerage are attached and made part of this permit. 3. Special Conditions <u>1 through XVII</u> are attached and made part of this permit.				
F. THE AUTHORITY GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING FURTHER QUALIFICATIONS: 1. If there is a conflict between the application or its supporting documents and amendments and the attached conditions, the attached conditions shall apply. 2. Failure to comply with the rules and regulations of DEP or with the terms or conditions of this permit shall void the authority given to the permittee by the issuance of this permit. 3. This permit is issued pursuant to the Clean Streams Law Act of June 22, 1937, P.L. 1987, as amended 35 P.S. §691.1 <i>et seq.</i> Issuance of this permit shall not relieve the permittee of any responsibility under any other law.				
PERMIT ISSUED: <u>November 21, 2016</u>		BY:  Jenifer L. Fields, P.E. TITLE: Clean Water Program Manager Southeast Regional Office		

SPECIAL CONDITIONS

Water Quality Management Permit No. 1599418

Malvern Hunt WWTP

East Whiteland Township, Chester County

I. Discharge Limitations and Monitoring Requirements

Effluent from the sewage treatment plant shall be sampled at a point after chlorination and shall be limited at all times as follows:

Parameter	Discharge Limitations (mg/l)			Monitoring Requirements	
	Average Monthly	Average Weekly	Instantaneous Maximum	Measurement Frequency	Sample Type
Influent Flow (mgd)	0.105			Continuous	Recorded
CBOD ₅	25		50	1/Month	Grab
Suspended Solids	30		60	1/Month	Grab
Fecal Coliform	200/100 ml as geometric average			1/Month	Grab
pH	Within limits of 6.0 to 9.0 standard units at all times			1/Month	Grab

Additional treatment requirements include the satisfactory disposal of sludge and the reduction of quantities of oils, greases, acids, alkalis, toxic, taste and odor producing substances, inimical to the public interest to levels which will not pollute the receiving waters.

Monitoring results shall be reported monthly on the Discharge Monitoring Report (DMR). The term "grab" sample means an individual sample collected in less than 15 minutes. Samples and measurements taken as required, herein, shall be representative of the volume and nature of the monitored discharge.

II. Copies of monthly Discharge Monitoring Reports must be submitted within 28 days of the end of the monitoring period to:

Department of Environmental Protection
Southeast Regional Office
Water Management
2 East Main Street
Norristown, PA 19401

III. Groundwater Monitoring Requirements

The permittee shall effectively monitor the quality of the groundwater. The parameters to be tested, and frequency of analysis and other monitoring requirements shall be as follows:

- A. Quarterly analysis of groundwater sampled at groundwater monitoring wells **MW-L1, MW-L2, MW-L3, MW-S1, MW-S2, MW-S3, MW-S6, MW-S7, and MW-S8**, shall consist of: static water level, sampling depth, turbidity, pH, chloride, total phosphorus, ammonia nitrogen, nitrate nitrogen, nitrite nitrogen, total dissolved solids, fecal coliform, and alkalinity.
- B. Groundwater elevations must be measured prior to purging the groundwater monitoring well.
- C. Before collection of the groundwater sample, a groundwater monitoring well shall be properly purged and allowed to recover to at least 90 percent of the well volume that was present prior to purging.
- D. All groundwater samples shall be collected from within the top five feet of the water elevation within the well column.

IV. Groundwater Monitoring Data Reporting Requirements

All groundwater data shall be submitted to DEP **annually** and be in **report form**. The report shall be due to DEP within 28 days of the end of the month of permit issuance. For example, if your permit was issued on March 4th, then your annual report is due by April 28th. The annual report shall be mailed under separate cover and addressed to:

Department of Environmental Protection
Southeast Regional Office
Water Management Program
2 East Main Street
Norristown, PA 19401

Attention: Hydrogeologist
Planning Section

V. The annual groundwater monitoring report shall include the following information:

- A. General Information
 - i. Facility name
 - ii. Facility permit number
 - iii. Facility location (including municipality and county)
 - iv. Facility contact information:
 - a. permittee name, address, and telephone number
 - b. contact name and title
 - c. facility operator name, address, and telephone number
 - d. facility consultant name, address, and telephone number

B. Site Data

- i. A brief narrative that provides the date and description of any facility event which may have impacted any part of the groundwater monitoring program. (e.g., collapse of groundwater monitoring well, etc.).
- ii. Average effluent flow for the year covered by this report.
- iii. In tabular form, the following information needs to be provided for at least the last 5 years of system operation:
 - a. Date of sampling
 - b. Groundwater elevations
 - c. Sampling depth
 - d. Identification of upgradient and downgradient wells
 - e. The results of the analysis of the samples
- iii. Background groundwater data generated prior to system start-up. **This information is absolutely needed and needs to be included in the data tabulation.**

C. Comprehensive Groundwater Evaluation (CGE)

As part of the facility's 5-year permit renewal application, the permittee shall submit a report that is a result of a comprehensive evaluation of the systems impact on groundwater. A Registered P.G. must identify any trends which may pose a threat to human health or certify that none are present. Should adverse impacts to groundwater be identified, the permittee needs to recommend actions to address the potential threat.

D. Groundwater Background Report

Within 60 days of system start up, or upon issuance of permit renewal a Groundwater Background Report shall be submitted to DEP. The report shall include the follow information:

- i. Site Information
 - a. Brief narrative, including site limitations.
 - b. Soil type and bedrock lithology beneath the absorption areas.
 - c. Site drawings showing general location of absorption fields and monitoring wells. Drawings must show site topography.
- ii. Construction details of each groundwater monitoring well shall include:
 - a. Well depth.
 - b. Casing depth.
 - c. Static water levels.
 - d. Surface elevation.
 - e. Well log.
 - f. Water bearing zones.
 - g. Top of casing elevation.
 - h. Ground surface elevation.

VI. Unless, otherwise, specified in this permit, the test procedures for analysis of pollutants shall be those contained in 40 C.F.R. Part 136, or alternative test procedures approved pursuant to that Part. For the analysis of CBOD₅, consult Section 507 of Standard Methods.

- VII. Effective disinfection to control disease producing organisms shall be the production of an effluent which will contain a concentration neither greater than 200/100 ml of Fecal Coliform organisms, as a geometric average value nor greater than 1000/100 ml of these organisms in a more than 10 percent of the samples tested.
- VIII. If the permittee monitors any pollutant more frequently than the permit requires, the results of this monitoring shall be incorporated, as appropriate, into the calculations used to report self-monitoring data on the DMR.
- IX. The authorization to discharge contained in Section D of this permit shall expire in five years from the date of issuance, or reissuance. Application for renewal of this permit, or notification of intent to cease discharging by the expiration date, must be submitted to the Department at least 180 days prior to the above expiration date (unless permission has been granted by the Department for submission at a later date). In the event that a timely and complete application for renewal has been submitted and the Department is unable, through no fault of the permittee, to reissue the permit before the above expiration date, the terms and conditions of this permit will be automatically continued and will remain fully effective and enforceable pending the grant or denial of the application for permit renewal. The application for renewal shall be submitted on the appropriate Water Quality Management Part II Application forms and shall include a tabulated summary of all groundwater monitoring data for the previous five years, including a discussion of groundwater quality trends resulting from this discharge.
- X. Sprayfield Weekly Maximum Hydraulic Loadings
- A. Effluent flows to each sprayfield must be consistent with the maximum hydraulic loading requirements of the following tables, which provide the weekly maximum gallons for each irrigation zone.

**MAXIMUM WEEKLY SPRAYFIELD HYDRAULIC LOADINGS
IN GALLONS**

Spray Zone 1 6.16 Acres Woods		
Month	Inches/Acre/Week	Maximum/Week Gallons
January	0.50	83,671
February	0.50	83,671
March	1.27	212,539
April	1.50	251,020
May	2.00	334,691
June	2.50	418,369
July	2.50	418,369
August	2.50	418,369
September	2.50	418,369
October	1.55	259,410
November	1.16	194,126
December	0.50	83,671

Spray Zone 2 6.19 Acres Woods		
Month	Inches/Acre/Week	Maximum/Week Gallons
January	0.50	84,079
February	0.50	84,079
March	1.27	213,574
April	1.50	252,243
May	2.00	336,321
June	2.50	420,406
July	2.50	420,406
August	2.50	420,406
September	2.50	420,406
October	1.55	260,673
November	1.16	195,072
December	0.50	84,079

Spray Zone 3 6.15 Acres Woods		
Month	Inches/Acre/Week	Maximum/Week Gallons
January	0.50	83,536
February	0.50	83,536
March	1.27	212,194
April	1.50	250,613
May	2.00	334,148
June	2.50	417,690
July	2.50	417,690
August	2.50	417,690
September	2.50	417,690
October	1.55	258,989
November	1.16	193,811
December	0.50	83,536

- B. The permittee shall include with the monthly Discharge Monitoring Report a Supplemental Land Application System Form 3800-FM-BPNPSM0449 that indicates the gallons per day discharged to the spray irrigation zones.
 - C. Spray irrigation events shall consist of simultaneous operation of two zones with one zone left off for a week-long resting period. All zones shall be rested each month.
 - D. Application of the effluent shall be managed to prevent runoff from the permitted spray fields and ponding of effluent.
 - E. No irrigation is to occur on frozen soils.
 - F. No irrigation is to occur if more than 0.5 inches of rainfall has fallen during the previous 24 hours.
 - G. The operator is to assess soil moisture content and soil/vegetation conditions frequently. It is the operator's responsibility to inspect the fields on a routine basis to prevent and/or address damage to the irrigation fields.
 - H. The spray fields shall be maintained to ensure that vegetation does not interfere with or impair proper operation of the spray heads.
 - I. Fallen trees in wooded spray fields are required to be removed. All work must be conducted during dry or frozen soil conditions to prevent damage to the soil.
- XI. At all times, the wastewater level in the storage lagoon shall be managed within the low and high water level parameters as designed. The water level shall be controlled so that a freeboard of at least 24 inches is maintained at all times. The Department must be notified if the water level is anticipated to enter freeboard.

XII. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- A. The exact place, date, and time of sampling or measurement.
- B. The person(s) who performed the sampling or measurement.
- C. The dates the analyses were performed.
- D. The person(s) who performed the analyses.
- E. The analytical techniques or methods used.
- F. The results of such analyses.

XIII. Recordkeeping and Retention

The permittee shall keep records of operation and efficiency of the wastewater treatment facilities. All records of monitoring activities and results (including all original strip chart recordings for continuous monitoring instrumentation and calibration and maintenance records), copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained by the permittee for three (3) years. The three-year period shall be extended as requested by the Department.

XIV. The facility shall be operated under the charge of a responsible operator(s) certified under the Pennsylvania Water and Wastewater Systems Operations Certification Act (Act 11). The operator(s) shall comply with the continuing education requirements required under the regulations and guidelines related to Act 11.

XV. Laboratory Certification

Facilities that test or analyze environmental samples used to demonstrate compliance with this permit shall be in compliance with laboratory accreditation requirements of act 90 of 2002 (27 Pa. Code C.S. §§ 4101-4113) and 25 Pa. Code Chapter 252, relating to environmental laboratory accreditation. An environmental laboratory is any facility engaged in the testing or analysis of environmental samples required by a statute administered by the Department relating to the protection of the environment or of public health, safety, and welfare.

XVI. Right of Entry

Pursuant to Sections 5(b) and 305 of Pennsylvania's Clean Stream Law, the permittee shall allow authorized representatives of Department of Environmental Protection upon the presentation of credentials and other documents as may be required by law:

- A. To enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit.
- B. To have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit.
- C. To inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit.
- D. To sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act or The Clean Streams Law, any substances or parameters at any location.

XVII. If there is a change in ownership of this facility or in permittee name, an application for transfer of permit must be submitted to the Department.

B. EAST WHITELAND TOWNSHIP SEWER SYSTEM MAP

Sanitary Sewer Collection System

East Whiteland Township

Chester County, PA

Pump Stations

1. Deer Run
2. Mill Ln
3. Wilburdale Rd
4. Lee Blvd
5. Meadow View
6. Flat Rd
7. Lapp Rd
8. Westgate
9. Church Rd
10. Frame Ave
11. Hillbrook Circle
12. King Rd
13. Malvern Hunt
14. Planebrook Rd

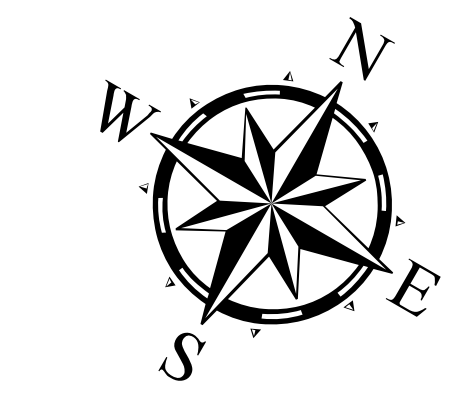
* Decommissioned

Meters

- I. Old Lincoln Hwy
- II. Warren Ave
- III. Lee Blvd
- IV. Church Rd
- V. Matthews Rd
- VI. Unisys
- VII. Northridge/Miner Hill
- VIII. Erin Glen
- IX. Woodview Apt
- X. Charlestown Oaks
- XI. Charlestown Meadows
- XII. Atwater

LEGEND

- Manholes
- Meters
- Pump Stations
- Laterals
- Weston Master Plan Area
- Municipal Boundaries
- Lakes & Ponds
- Streams
- Subdivisions
- Pump Station Drainage Basins
- Parcel Boundaries
- Valley Forge Service Area
- Valley Forge Service Area Proposed
- Force Mains & Size
- 8" Gravity Sewer
- 8" Proposed Gravity Sewer
- 10" Gravity Sewer
- 12" Gravity Sewer
- 15" Gravity Sewer
- 15" Proposed Gravity Sewer
- 16" Gravity Sewer
- 18" Gravity Sewer
- 18" Proposed Gravity Sewer
- 20" Gravity Sewer
- 21" Gravity Sewer
- 24" Gravity Sewer
- 27" Gravity Sewer
- 36" Gravity Sewer
- Unknown Pipe Diameter



0 600 1,200
Feet

1 inch = 600 feet

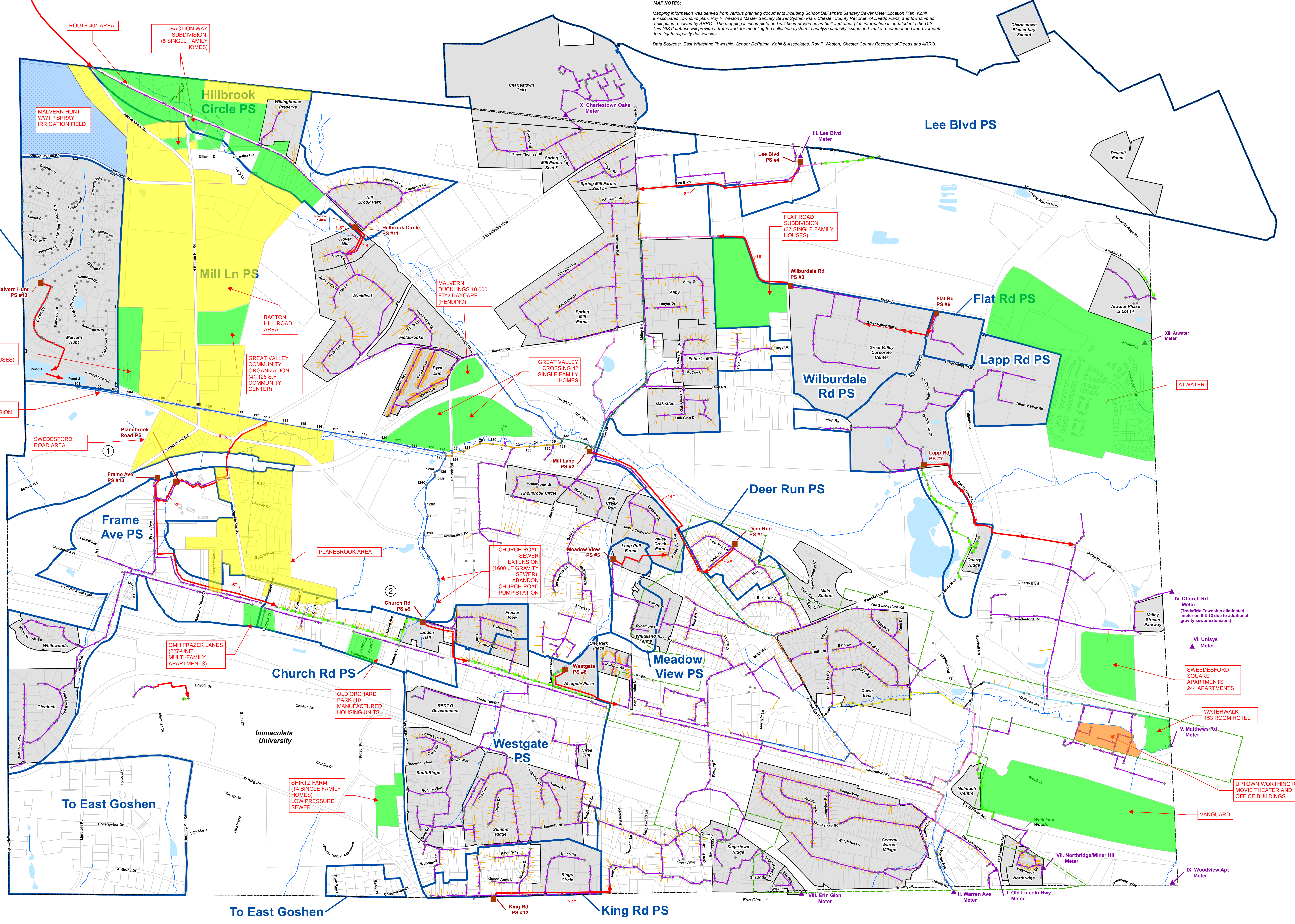
REVISION DATE: 3/3/2020

MAP NOTES:
Mapping information was derived from various planning documents including School DePalma's Sanitary Sewer Meter Location Plan, Kohli & Associates Township plan, Roy F. Weston's Master Sanitary Sewer System Plan, Chester County Recorder of Deeds Plans, and township as-built plans received by ARRO. The mapping is incomplete and will be improved as as-built and other plan information is updated into the GIS. This GIS database will provide a framework for modeling the collection system to analyze capacity issues and make recommended improvements to mitigate capacity deficiencies.
Data Sources: East Whiteland Township, School DePalma, Kohli & Associates, Roy F. Weston, Chester County Recorder of Deeds and ARRO.

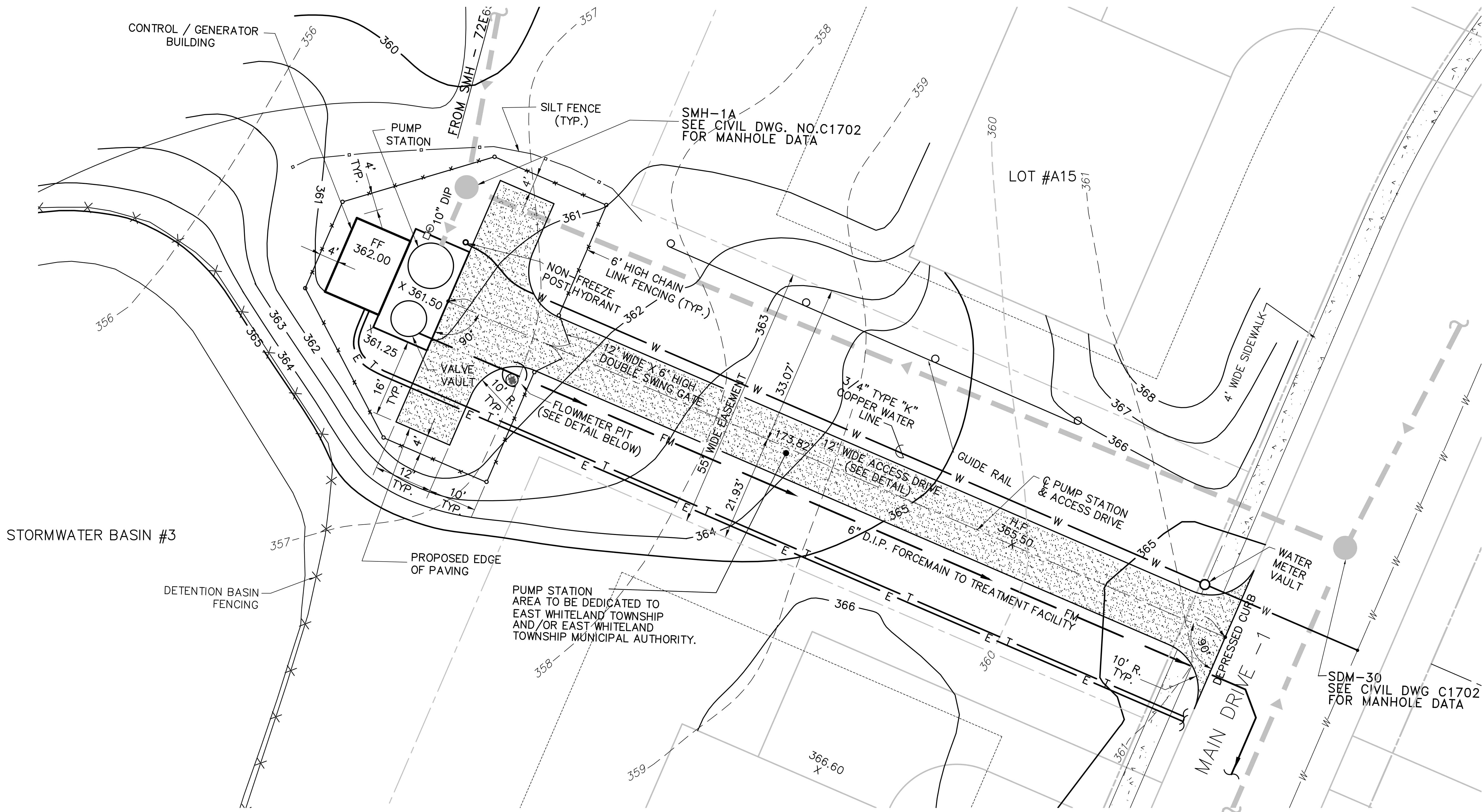
- NOTES:
1. PLANE BROOK ROAD PUMP STATION WAS PLACED IN SERVICE IN NOVEMBER OF 2018 AND THE FRAME AVENUE PUMP STATION WAS DECOMMISSIONED
 2. CHURCH ROAD PUMP STATION WAS DECOMMISSIONED IN MARCH OF 2020

LEGEND: APPROVED/PENDING DEVELOPMENTS

- APPROVED/UNDER CONSTRUCTION
- PENDING APPROVAL
- PUBLIC SEWER FACILITIES CURRENTLY IN DESIGN



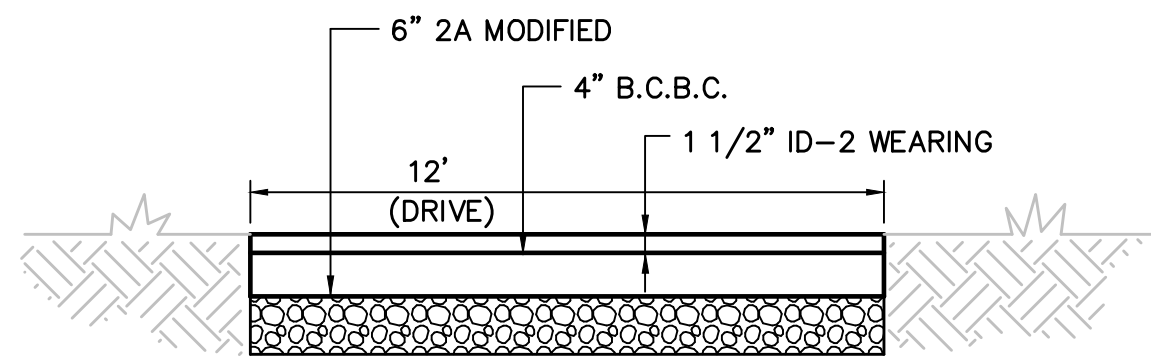
C. EXISTING PUMP STATION DRAWINGS



PLAN
1" = 10'

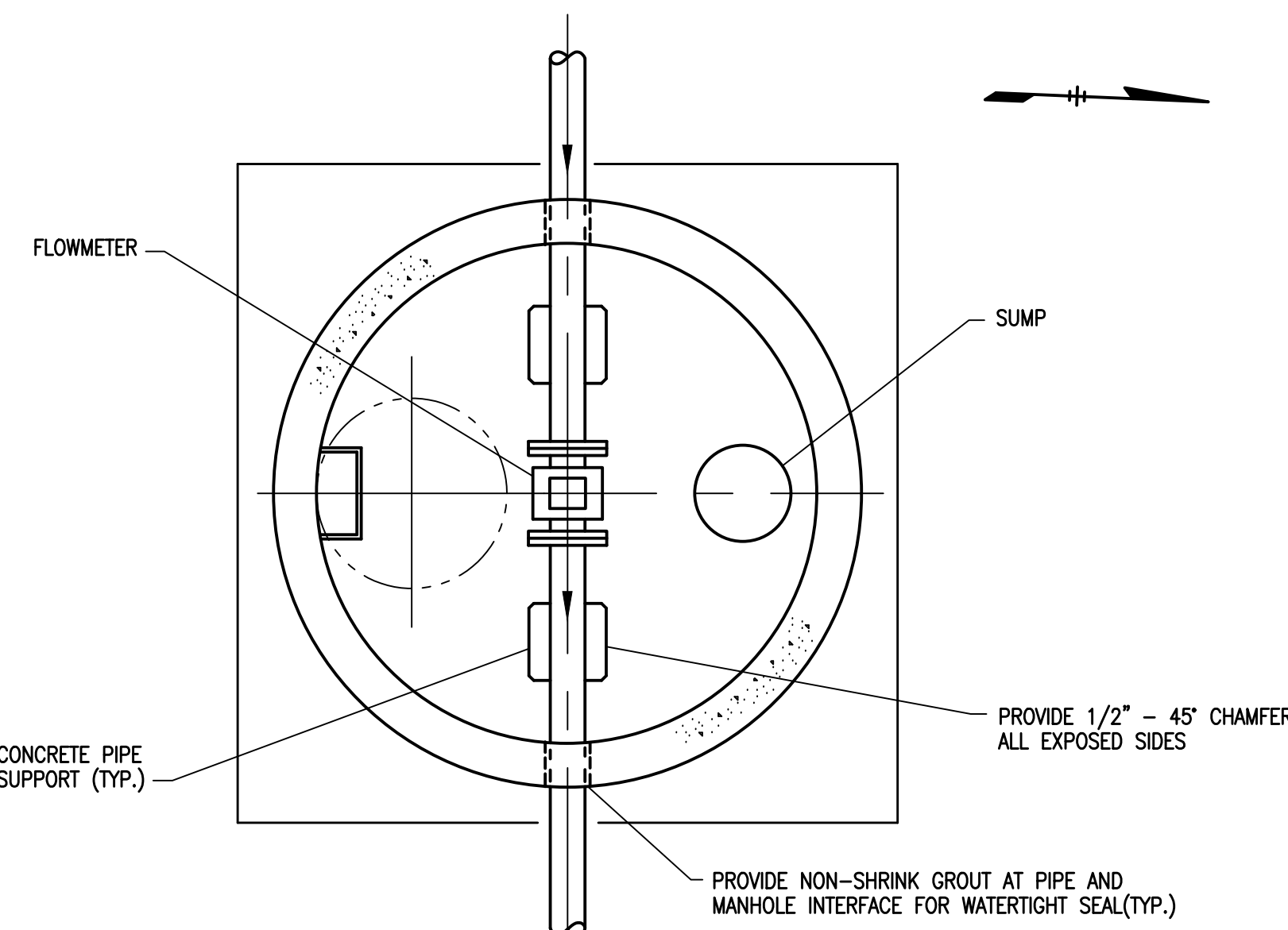
GENERAL NOTES:

1. THE STRUCTURAL DESIGN OF THE WETWELL AND VALVE CHAMBER IS TO BE PROVIDED BY THE PRECAST CONCRETE MANUFACTURER. THE WALL AND SLAB THICKNESSES HAVE BEEN NOTED ON THE PLANS BUT ARE SUBJECT TO CHANGE BASED ON THE STRUCTURAL DESIGN.
2. ALL HATCHES ARE TO BE EQUIPPED WITH FACTORY INSTALLED NEOPRENE GASKETS TO INSURE TIGHT WEATHERPROOF SEALS.
3. SEE MALVERN HUNT DEVELOPMENT DRAWINGS FOR CONSTRUCTION BENCHMARK.
4. ALL EROSION AND SEDIMENTATION CONTROL MEASURES ARE INCLUDED IN SITE DRAWINGS.
5. SEE MALVERN HUNT DEVELOPMENT DRAWINGS FOR LANDSCAPING OF PUMP STATION & ACCESS DRIVE.
6. ALL APPROVED SHOP DRAWINGS ARE TO BE SUBMITTED TO EAST WHITELAND TOWNSHIP.

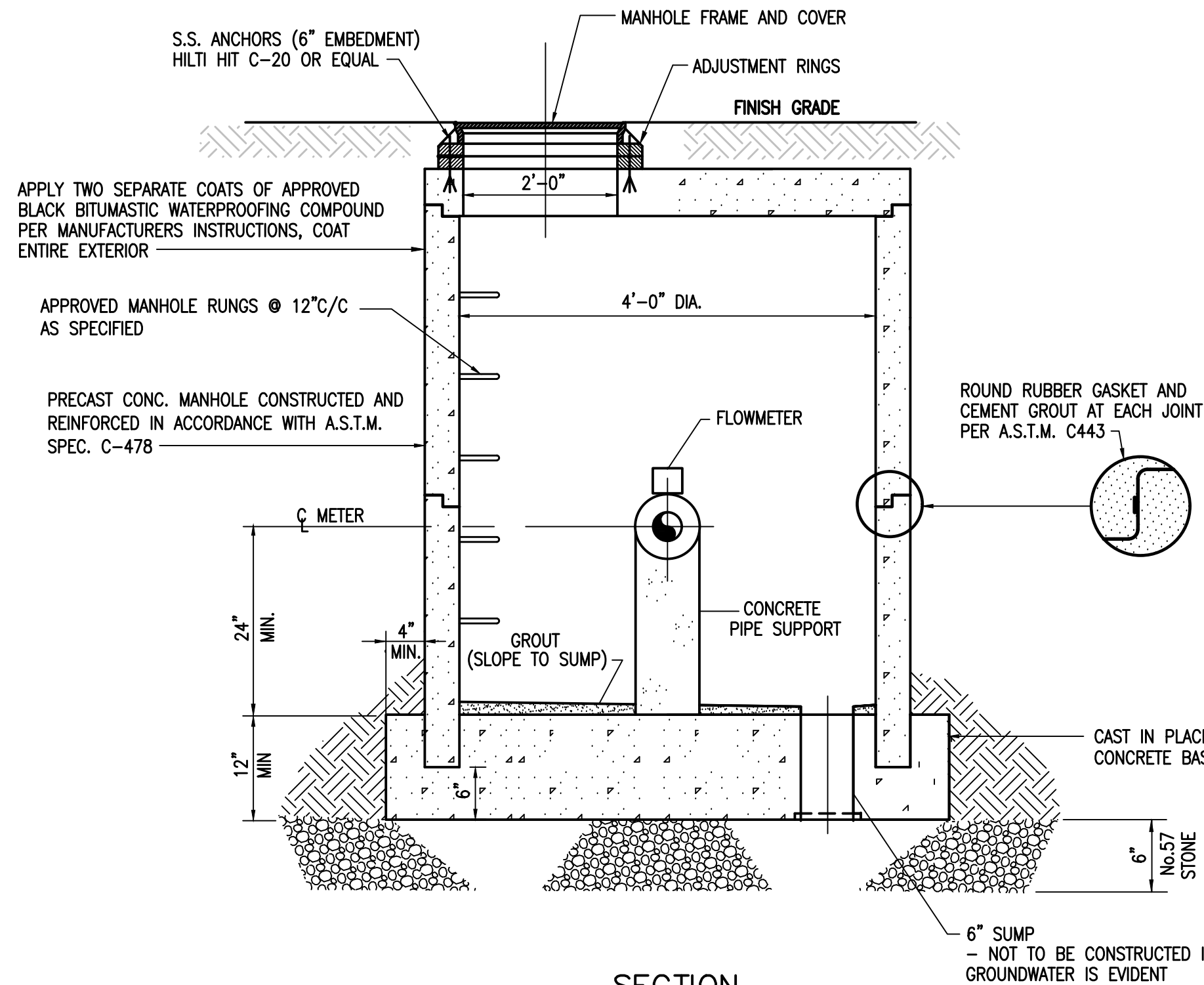


TYPICAL SECTION

PUMP STATION ACCESS DRIVE
N.T.S.



PLAN BELOW GRADE



SECTION

FLOWMETER PIT
N.T.S.

ISSUED FOR BID
MARCH 31, 2000

NOTE: THIS PLAN FOR PUMP STATION SITE ONLY.

Pennoni Associates Inc.

One Drexel Plaza, 3001 Market Street, Philadelphia, PA 19104

Engineers • Surveyors • Planners • Landscape Architects

MALVERN HUNT
EAST WHITELAND TOWNSHIP, CHESTER COUNTY
PUMP STATION - SITE PLAN
THE CUTLER GROUP, INC.
C/O RICHARD P. MURPHY
MCBRIDE AND MURPHY
HORSHAM, PA 19044

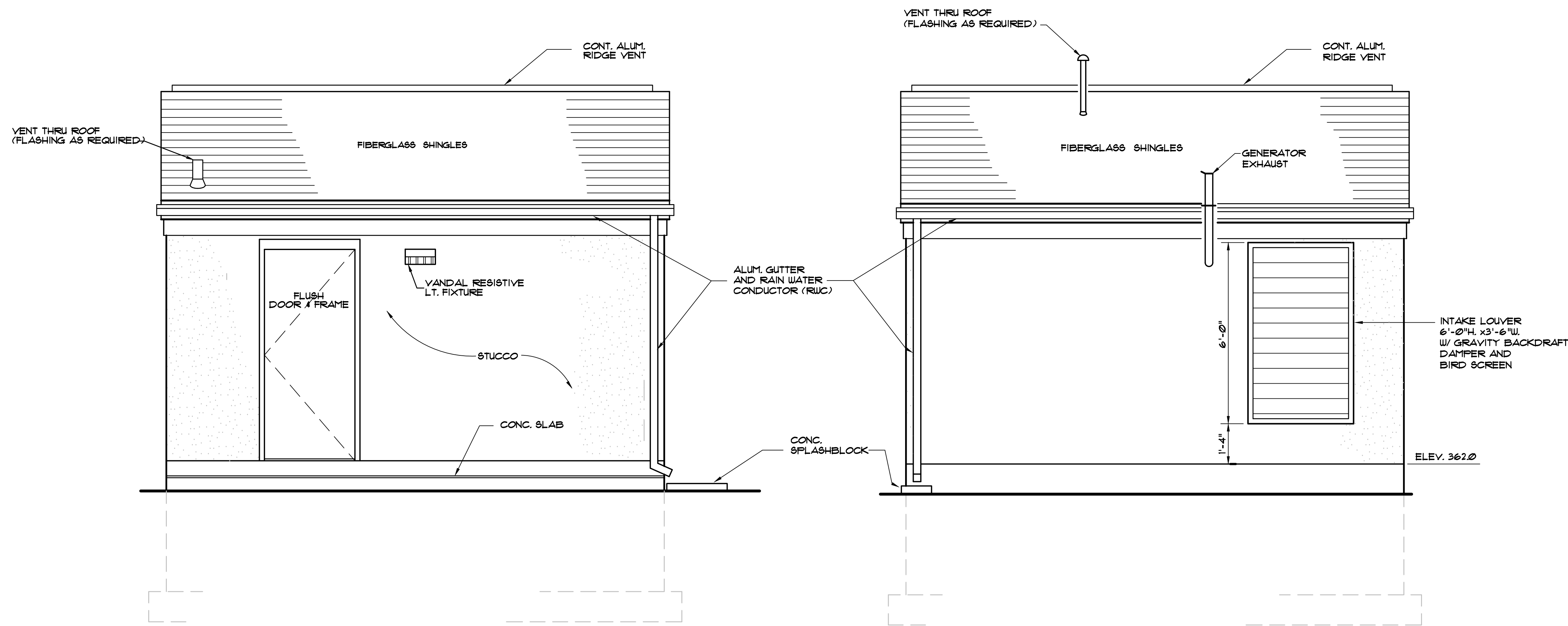
ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE USED FOR ANY OTHER PROJECT OR FOR ANY OTHER EXTENSION OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN PERMISSION OR ADAPTATION BY PENNONI ASSOCIATES FOR THE PROJECT OR FOR ANY OTHER EXTENSION OF THE PROJECT SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO PENNONI ASSOCIATES. PENNONI ASSOCIATES AND USER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

JOB NUMBER	TCOR 98AB004
SCALE	DRAWING NO.
1"=10'-0"	PS-1
DRAWN BY	
Z.D.	
DATE	
11/30/98	
APPROVED	SHEET
	2 OF 5

ALL DIMENSIONS MUST BE VERIFIED BY THE USER. PENNONI ASSOCIATES SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS.

DATE	NO.	REVISIONS	BY
11/1/99	2	ADD METER PIT REV. NOTES	BRW
4/7/99	1	PER TOWNSHIP ENGINEER COMMENTS	



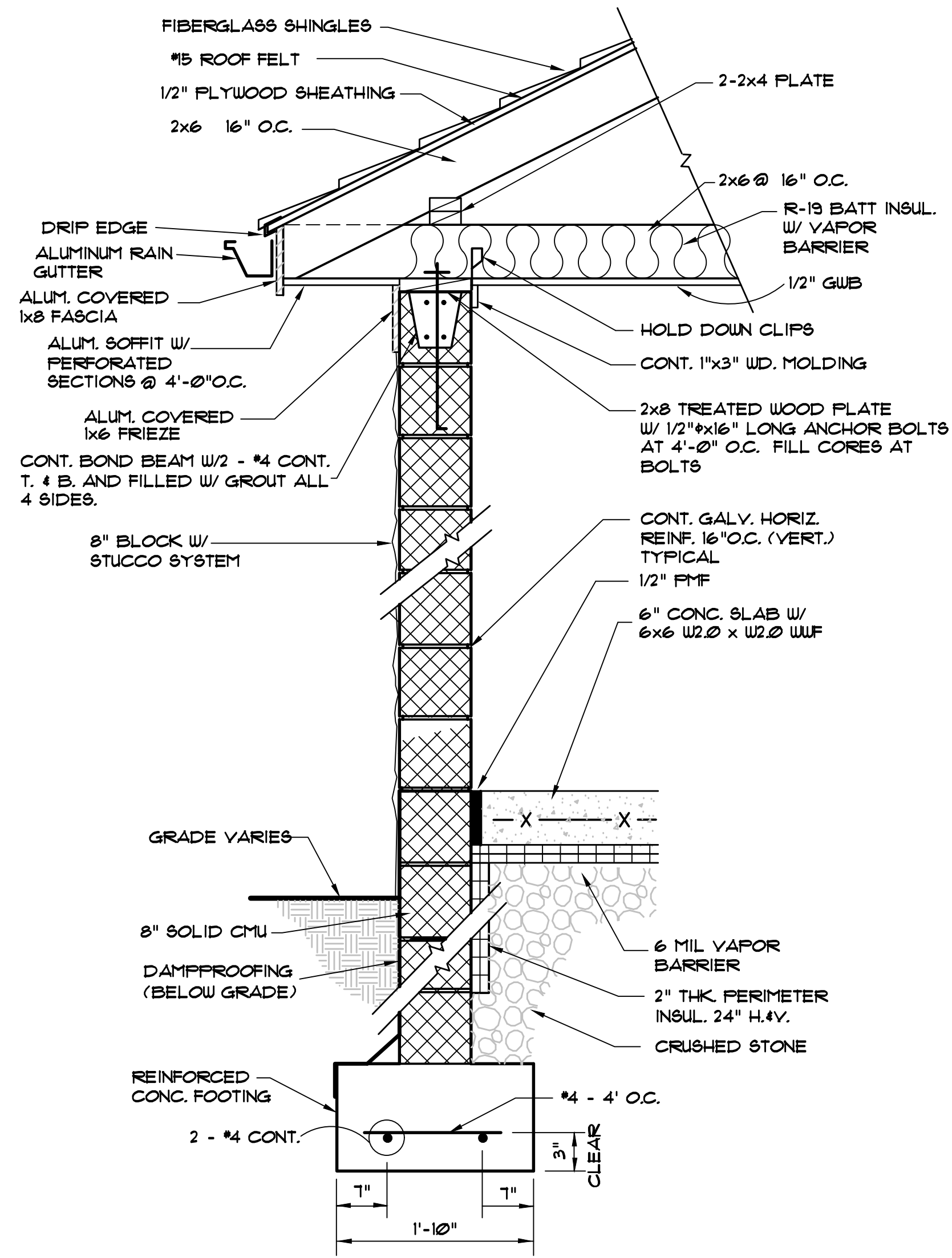


FRONT ELEVATION

SCALE: 1/2" = 1'-0"

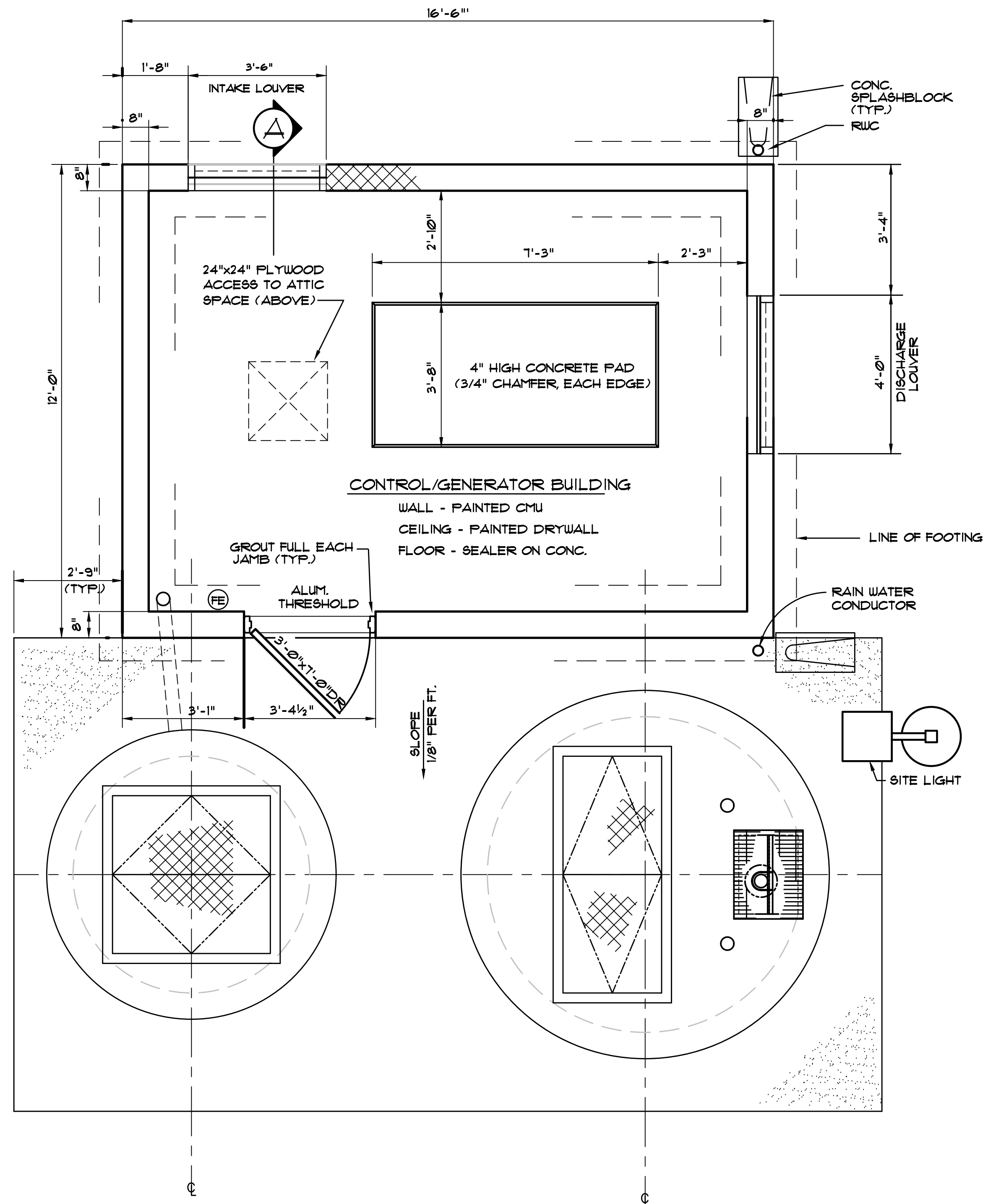
REAR ELEVATION

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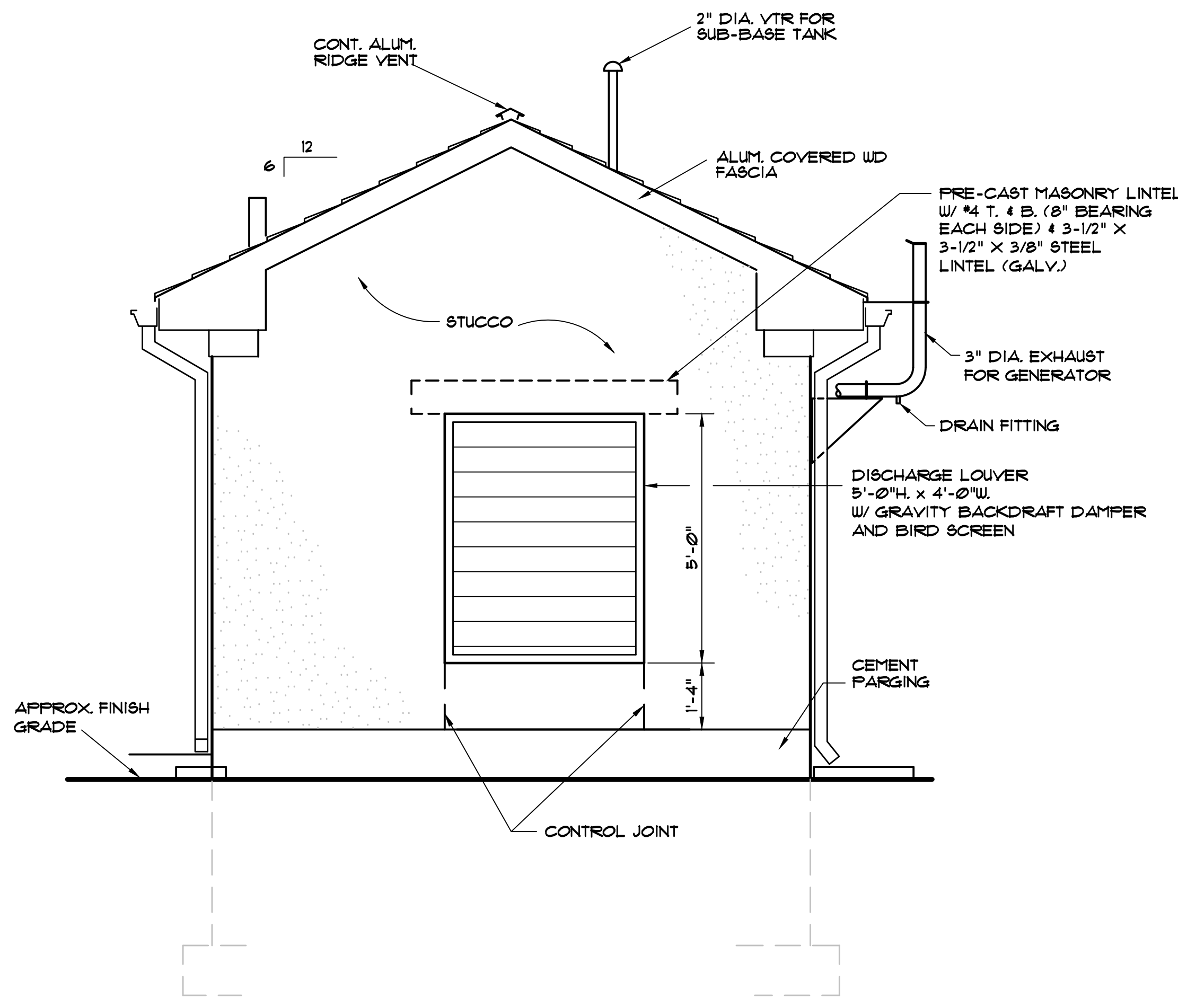
TYPICAL WALL SECTION

SCALE: 1" = 1'-0"



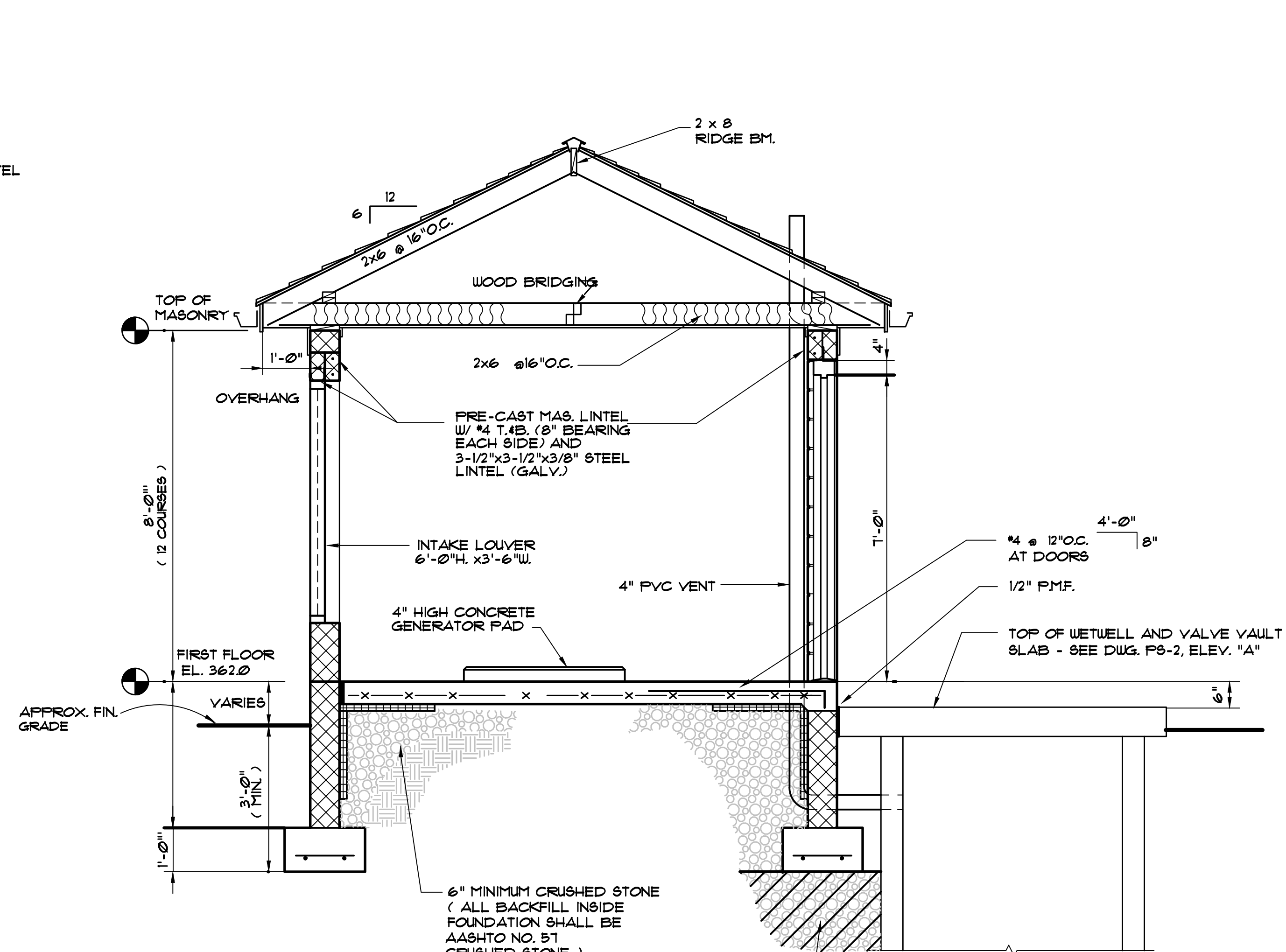
FLOOR PLAN

SCALE: 1/2" = 1'-0"



RIGHT SIDE ELEVATION

SCALE: 1/2" = 1'-0"



SECTION

SCALE: 1/2" = 1'-0"

NOTE:

FOOTING AND CONC. FLOOR SLAB TO BEAR ON FIRM UNDISTURBED SOIL OR 95% COMPACTED MATERIAL WITH A SOIL BEARING OF 2000 P.S.F.

ISSUED FOR BID
MARCH 31, 2000

NO. REV.	DATE	BY
1	4/99	PERMANENT ENGINEER
2	4/99	NO REVISIONS THIS SHEET

ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT, AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF PENNONI ASSOCIATES. PENNONI ASSOCIATES SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED HEREIN. PENNONI ASSOCIATES SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED BY OTHERS. PENNONI ASSOCIATES SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED BY OTHERS.

JOB NUMBER	TCGR 98A8004
SCALE	AS NOTED
DRAWN BY	Z.D.
DATE	4/1/99
APPROVED	SHEET

NO. REV.	DATE	BY
1	4/99	PERMANENT ENGINEER
2	4/99	NO REVISIONS THIS SHEET

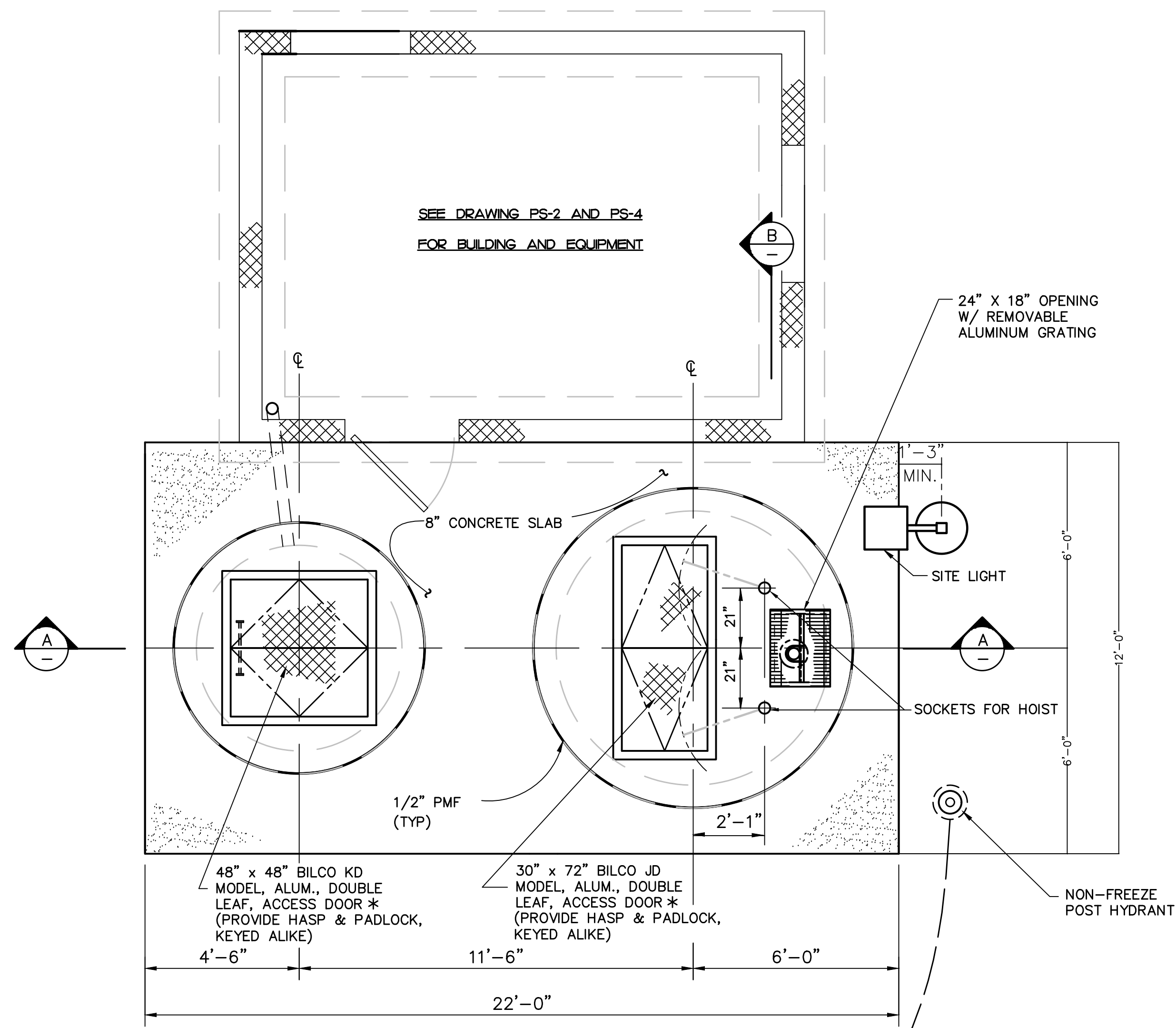
PS-2

3 OF 5

MALVERN HUNT
EAST WHITELAND TOWNSHIP, CHESTER COUNTY

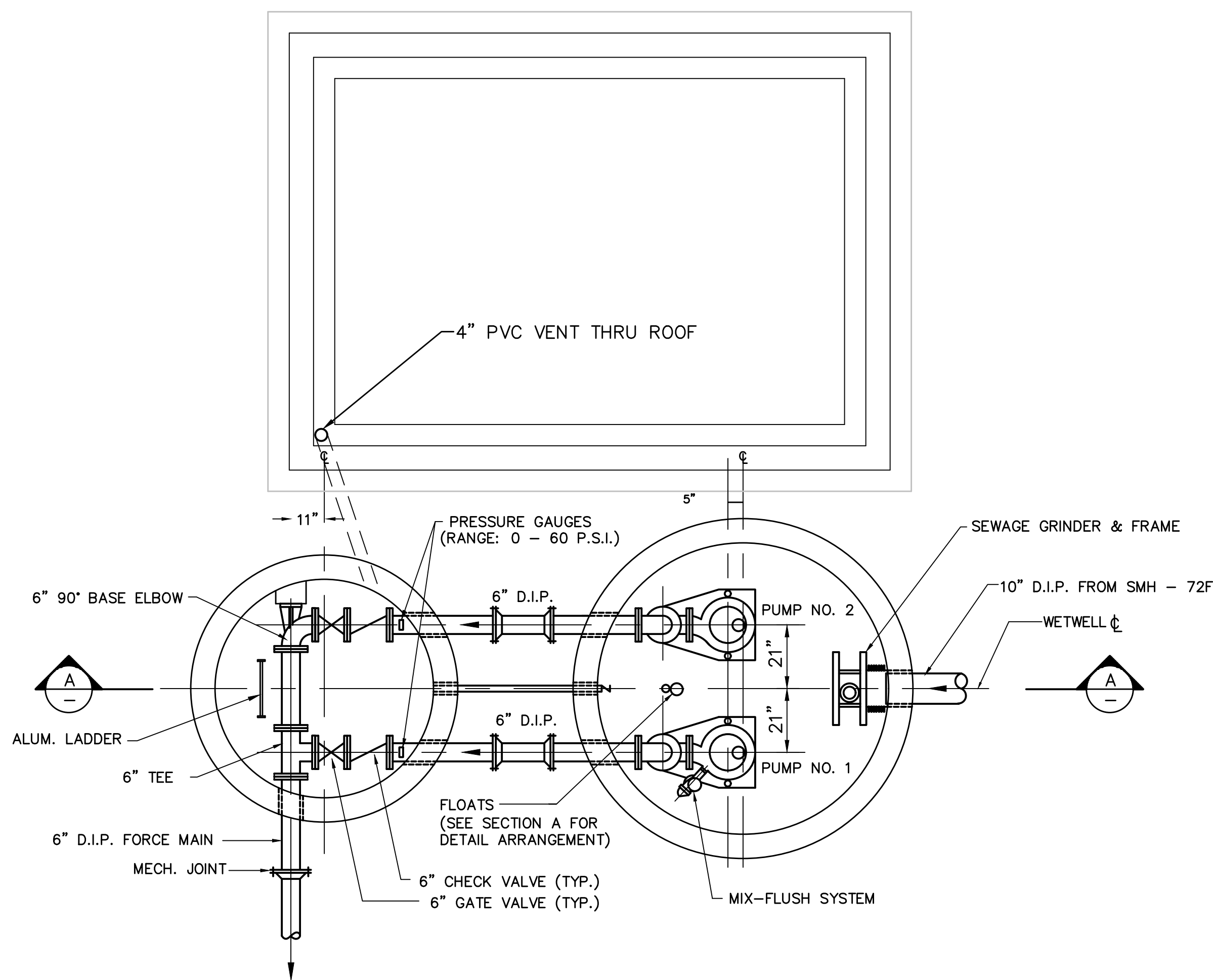
PUMP STATION - ARCHITECTURAL

THE CUTLER GROUP, INC.
C/O RICHARD P. MERRILL
1800 P.O. BOX 629
POCONO, PA 18344

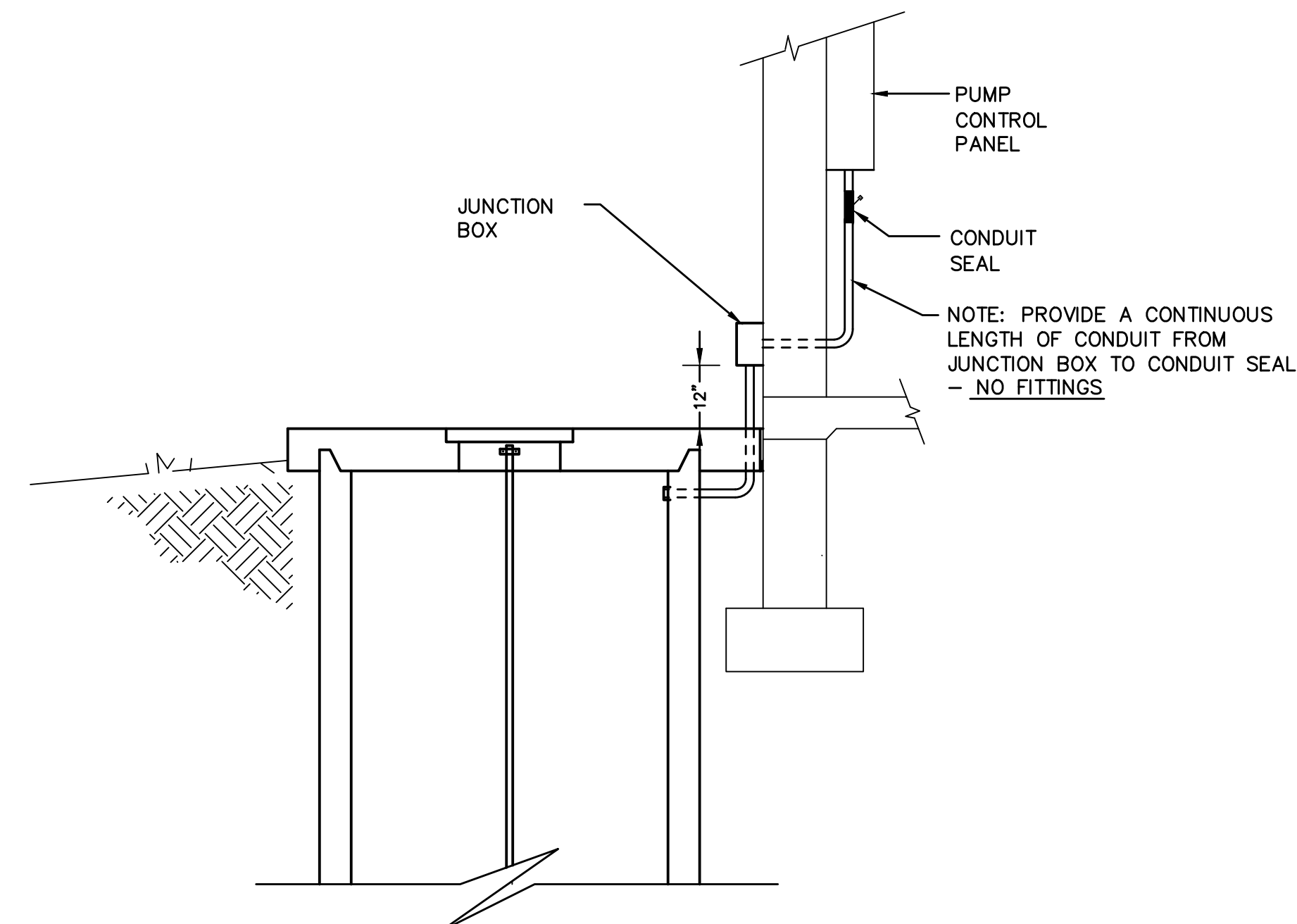


* NOTE: PROVIDE DRAIN PIPING PER ACCESS DOOR MANUFACTURER'S RECOMMENDATIONS

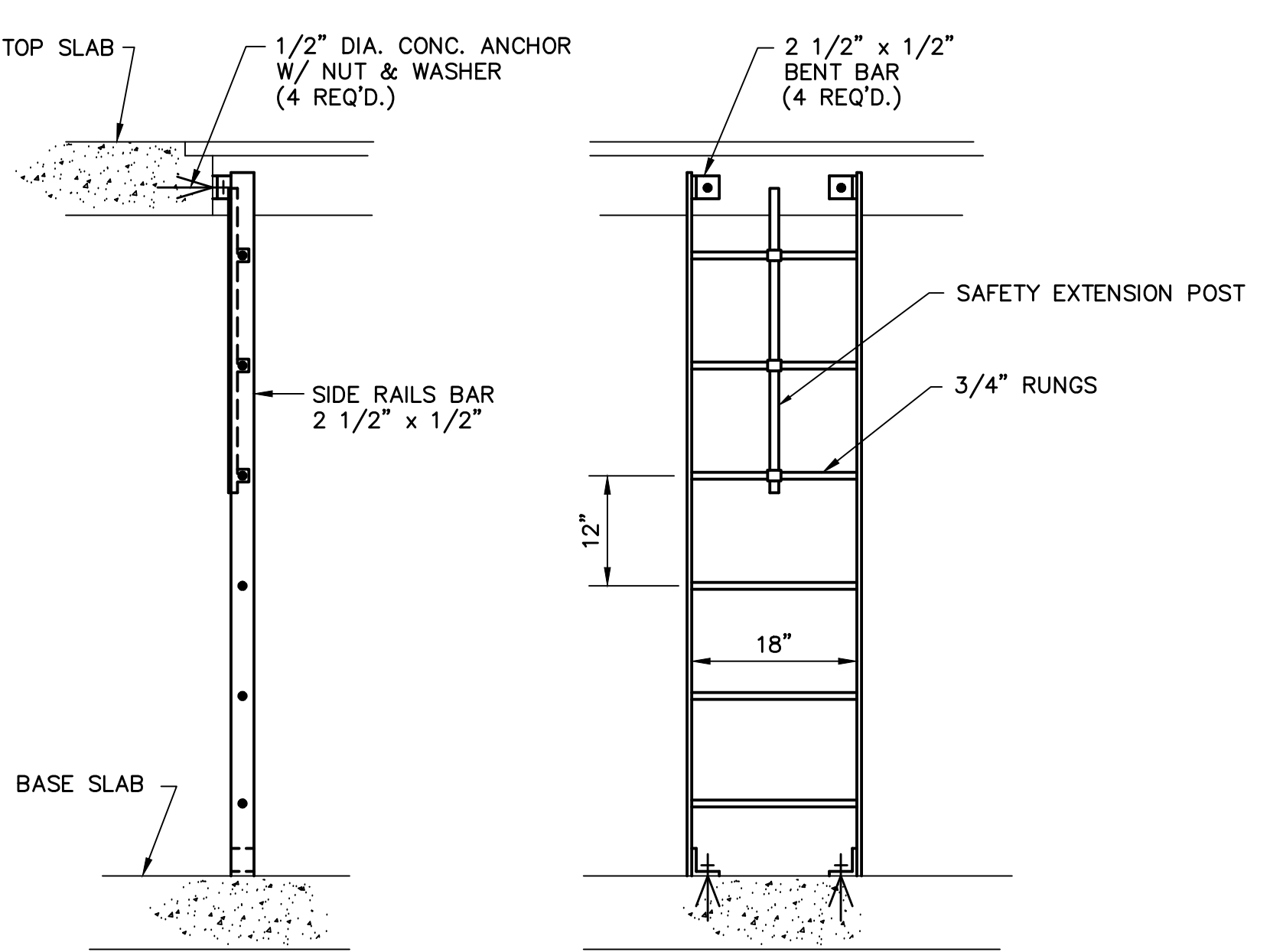
PLAN ABOVE GRADE
SCALE : 3/8" = 1'-0"



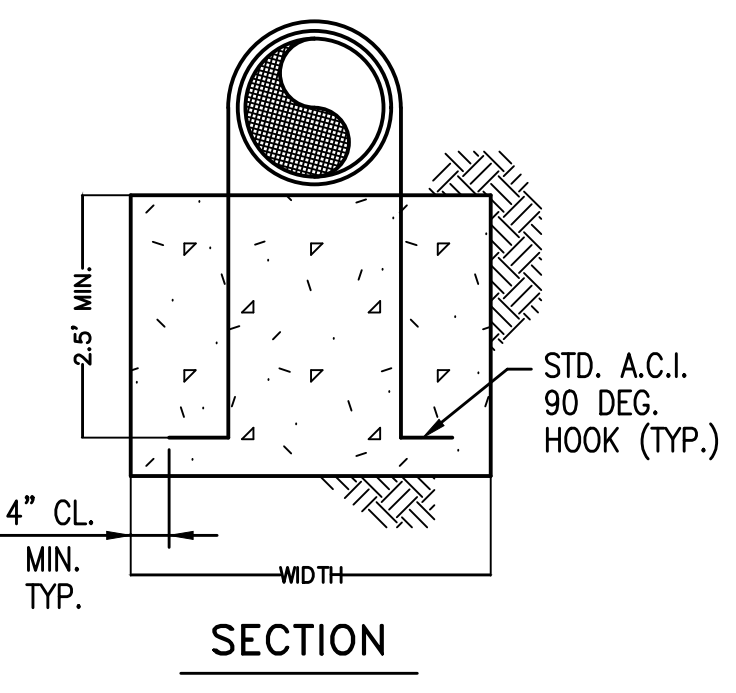
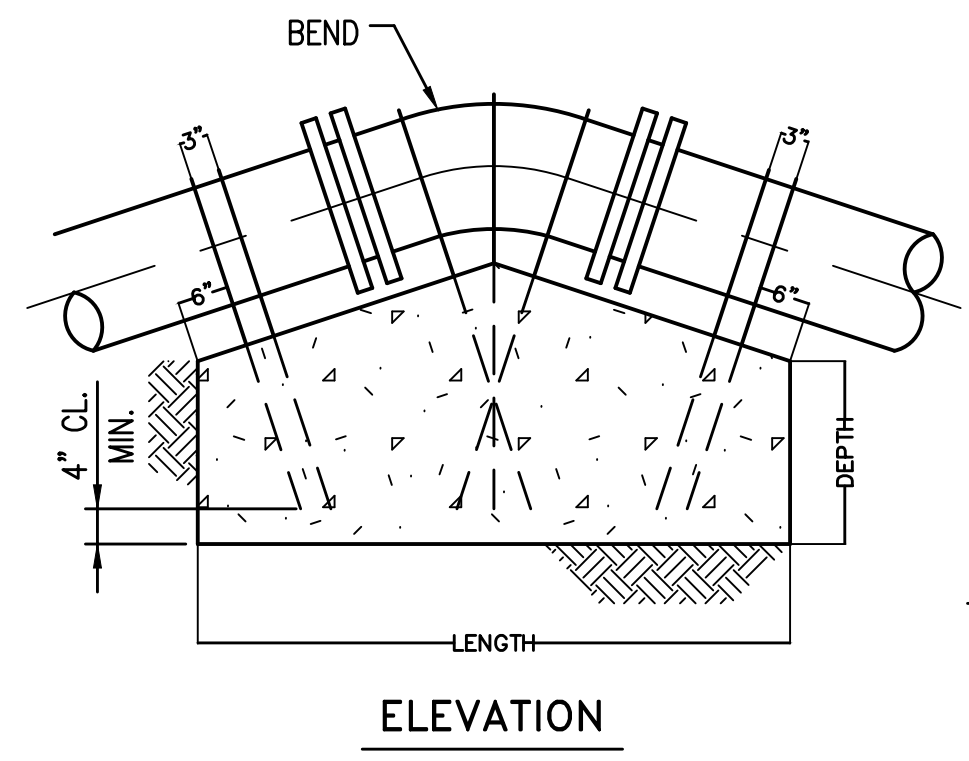
PLAN BELOW GRADE
SCALE : 3/8" = 1'-0"



SECTION
SCALE : 3/8" = 1'-0"



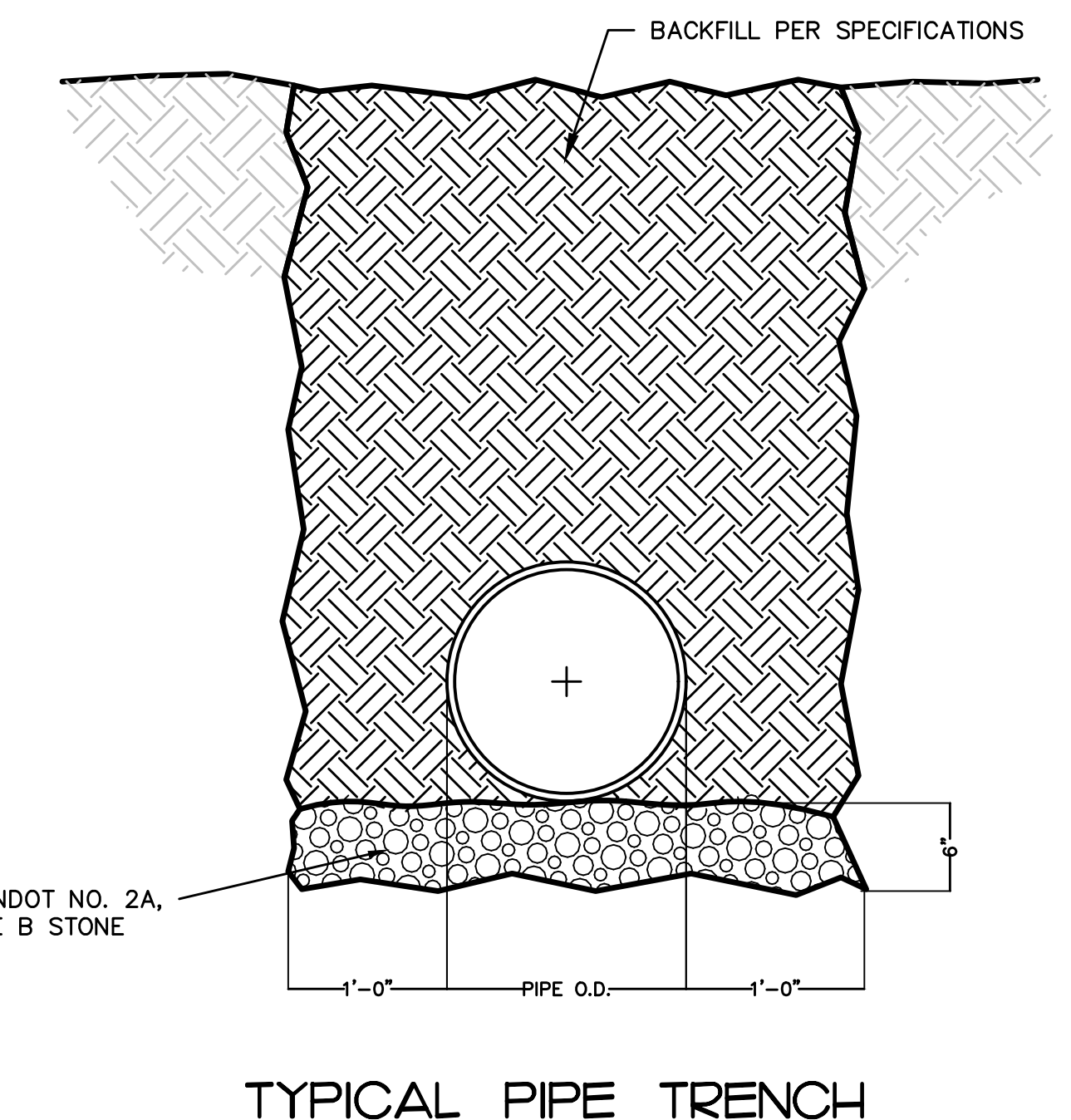
ALUMINUM LADDER DETAIL
N.T.S.



PIPE SIZES (IN.)	DEGREE OF BEND OR DEFLECTION							
	11.25	22.5	45	11.25	22.5	45	11.25	22.5
LENGTH (FT.)	4.0	4.5	6.5	3.0	4.0	4.5	3.0	4.0
WIDTH (FT.)	4.0	4.5	6.5	3.0	4.0	4.5	3.0	4.0
DEPTH (FT.)	4.0	4.5	6.5	3.0	4.0	4.5	3.0	4.0
6-8	4.0	4.5	6.5	3.0	4.0	4.5	3.0	4.0
10-12	4.5	5.0	8.0	4.0	5.0	5.5	4.0	6.0
14-16	5.5	8.0	11.5	5.0	6.0	6.5	5.0	5.5
18-20	6.0	7.5	13.0	6.0	7.0	7.5	5.0	7.0
24	6.5	10.0	14.0	6.5	8.0	9.5	6.5	7.0

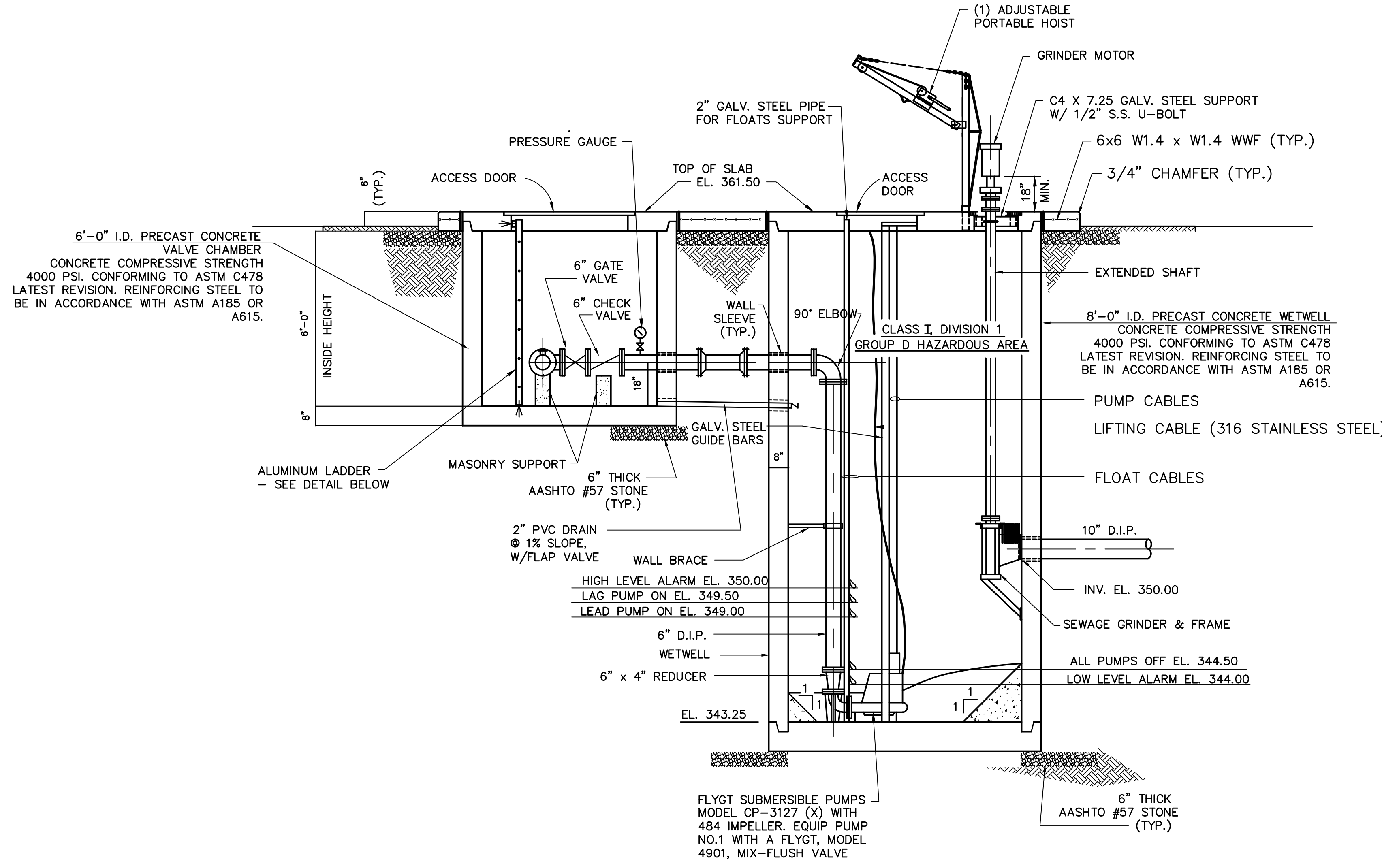
- NOTES
1. FOR 4" AND 6" PIPE, USE THREE # 4 BARS OVER FITTING ONLY.
 2. FOR 8" THROUGH 20" PIPE, USE SIX # 6 BARS WITH TWO OVER FITTINGS AND FOUR OVER PIPES.
 3. FOR 24" PIPE, USE SEVEN # 7 BARS AS SHOWN.
 4. CONCRETE TO HAVE 3,000 P.S.I. MINIMUM 28 DAY COMPRESSIVE STRENGTH.
 5. REINFORCING STEEL TO BE ASTM A-615, GRADE 60.
 6. COVER ALL FITTINGS AND JOINTS WITH POLYETHYLENE FILM BEFORE PLACING CONCRETE.
 7. COAT ALL EXPOSED FERROUS SURFACES WITH TWO COATS BITUMASTIC, APPLIED PER MFG'S RECOMMENDATIONS.
 8. BEND REINFORCING BARS TO U SHAPE CONFORMING TO OUTSIDE PIPE DIAMETER.
 9. KEEP CONCRETE CLEAR OF JOINTS AND LUGS.
 10. FORM UNSUPPORTED AREAS OF CONCRETE.

CONCRETE THRUST BLOCKS FOR VERTICAL UPWARD THRUST
N.T.S.

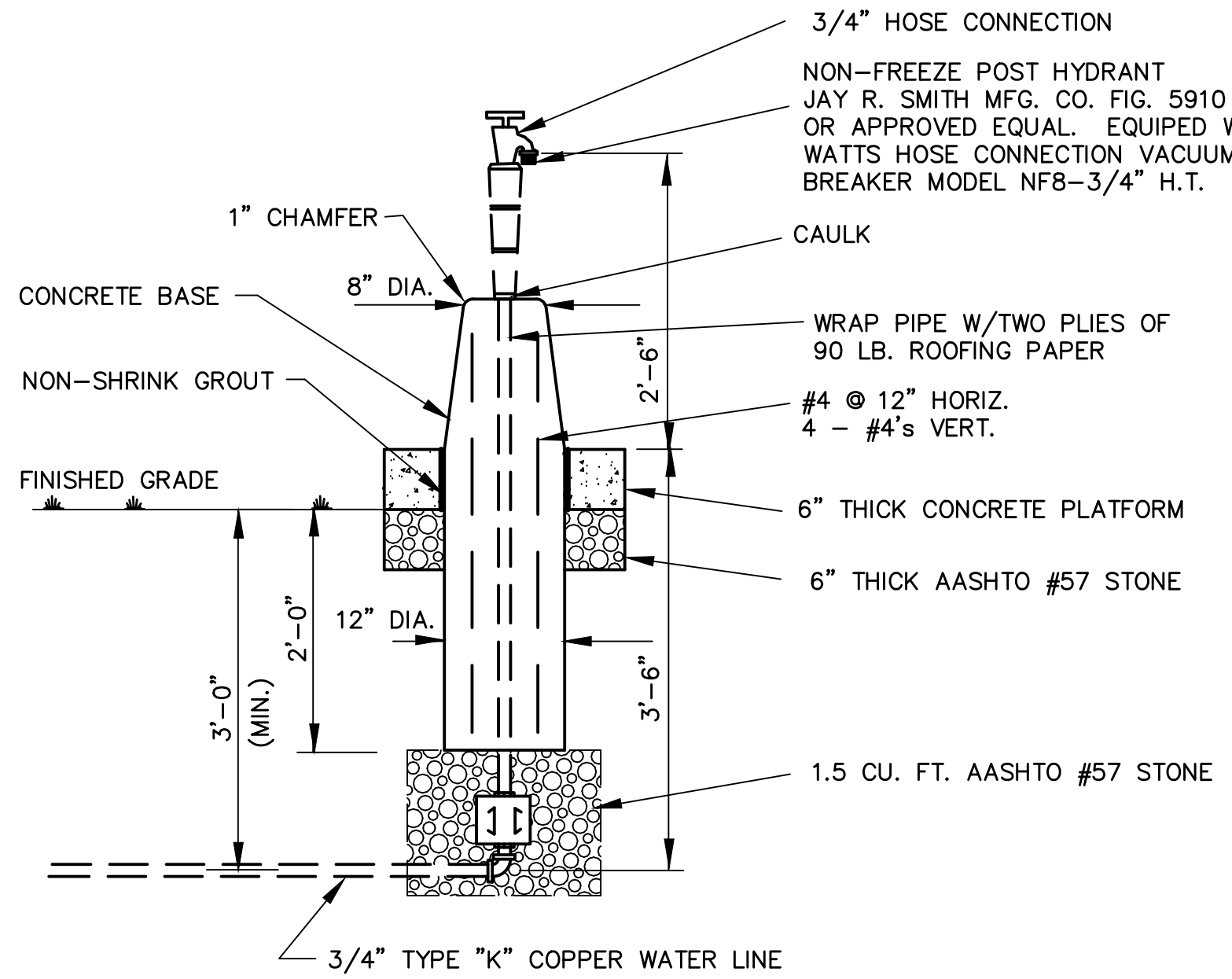


GENERAL NOTES:

1. THE STRUCTURAL DESIGN OF THE WETWELL AND VALVE VAULT, IN ADDITION TO ANTI-FLOATATION CALCULATIONS, ARE TO BE PROVIDED BY THE PRECAST CONCRETE MANUFACTURER AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF PENNSYLVANIA.
2. ALL HATCHES ARE TO BE EQUIPPED WITH FACTORY INSTALLED NEOPRENE GASKETS TO INSURE TIGHT WEATHERPROOF SEALS.
3. CONCRETE EDGES ABOVE FINISHED GRADE TO HAVE 3/4" CHAMFER.



SECTION
N.T.S.



NON-FREEZE POST HYDRANT DETAIL
N.T.S.

DATE	NO.	REVISIONS	BY
11/1/98	2	NO REVISIONS THIS SHEET	BRW
4/2/99	1	PER TOWNSHIP ENGINEER COMMENTS	BRW

ALL DIMENSIONS MUST BE REVIEWED BY THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.

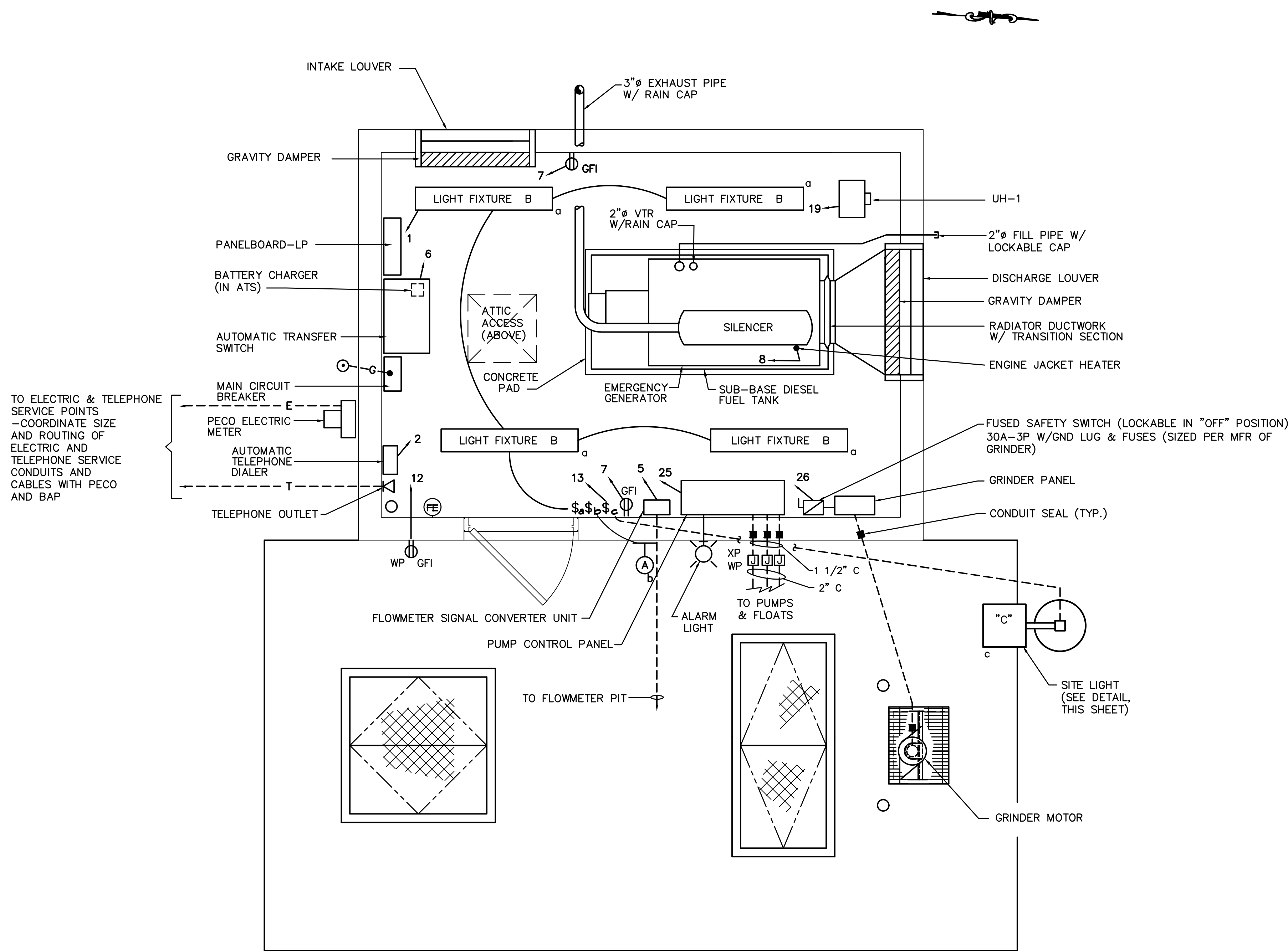
ONE DREXEL PLAZA, 3001 MARKET STREET, PHILADELPHIA, PA 19104

MALVERN HUNT
EAST WITELAND TOWNSHIP, CHESTER COUNTY

PUMP STATION - WET WELL & VALVE CHAMBER

THE CUTLER GROUP, INC.
C/O RICHARD P. MERRIDE
MERRIDE AND MURPHY
HORSHAM, PA 19044

JOB NUMBER	TCOR 98AB004
SCALE	AS NOTED
DRAWN BY	Z.D.
DATE	11/30/98
APPROVED	SHEET
	4 OF 5

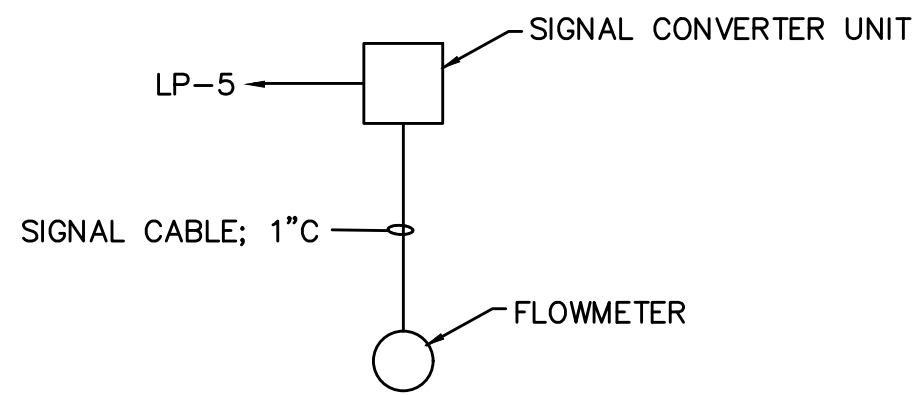


FLOOR PLAN

SCALE: 1/2" = 1'-0"

LIGHTING FIXTURE SCHEDULE						
TYPE	MANUFACTURER/CATALOG NO.	LAMP			MOUNTING	
		NO.	TYPE	WATT	TYPE	HEIGHT
A	HUBBELL PERIMALITER SERIES PVL-0070S-118	1	HPS	70	WALL	7'-0"
B	USI/COLUMBIA LU240DMR120CW	2	FLUOR	40	CEILING	—
C	HUBBELL MSA110S3A81PCR1-MAS101-SAP4146A4MS1	1	HPS	150	POLE	15'-0"

UNIT HEATER SCHEDULE						
SYMBOL	MFR/CATALOG NO.	HEAT			MOUNTING	
		NO.	TYPE	WATT	TYPE	HEIGHT
UH-1	CHROMALOX LUH-05-23	1	ELEC	5,000	WALL	7'-6"



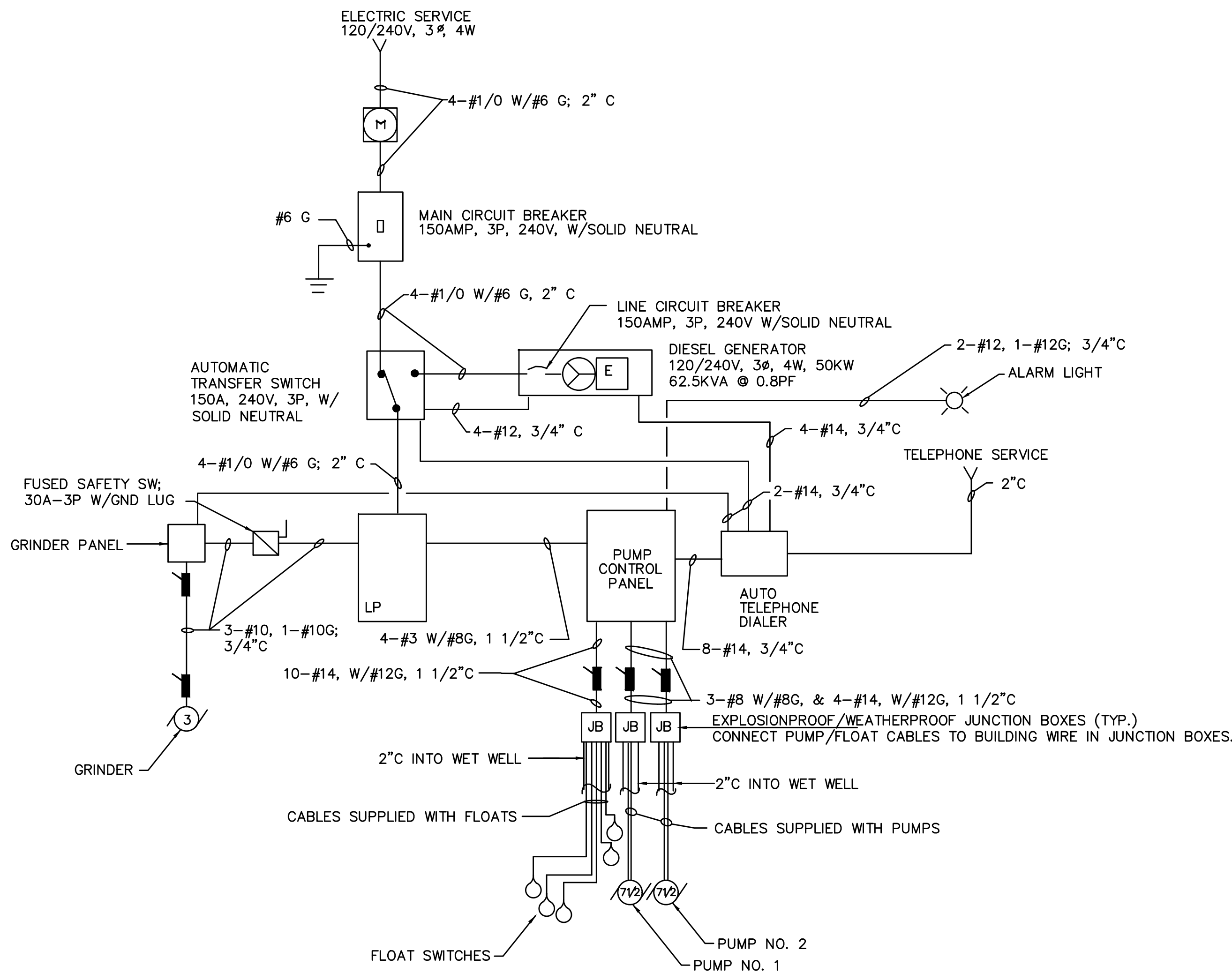
FLOWMETER SCHEMATIC DIAGRAM

PANEL SCHEDULE													
PANEL: LP				INTERRUPTING RATING: 10,000 AMP RMS SYM				MOUNTING: SURFACE					
VOLTAGE: 120/240				AMP: 225				PHASE: 3Ø					
								WIRE: 4					
								MAIN: 225A MLO					
CIRCUIT	DESCRIPTION	WIRE	POLES	VA/PHASE						BKR SIZE	POLES	WIRE	DESCRIPTION
				A	B	C	D	E	F				
1	LIGHTING	12	1	20	488	40				20	1	12	AUTO. TEL. DIALER
3	SPACE												SPACE
5	FLOWMETER/SIG. CONV.	12	1	20				25	240	20	1	12	BATTERY CHARGER
7	RECEPTACLE - INTERIOR	12	1	20	360	500				20	2	12	JACKET HEATER
9	SPACE							500		1	1		
11	SPARE									20	1	12	RECEPTACLE - EXTERIOR
13	SITE LIGHT	12	1	20	188					20	1	12	SPACE
15	SPACE												SPACE
17													
19	UNIT HEATER	12	3	20	1667								
21								1667					
23									1667				
25	PUMP CONTROL PANEL	3	3	80	6097	1330				30	3	10	GRINDER PANEL
27								6097	1330				
29													
TOTALS					10,670	9,594		6,097	9,539				

NOTE: 1. NEMA TYPE 1 ENCLOSURE
2. COPPER GROUND BUS
3. * INDICATES GFI TYPE OKT BKR
4. BØ SHALL BE "HIGH LEG"--- MARK "HIGH LEG" POLES IN ORANGE COLOR PER NATIONAL ELECTRICAL CODE

SPECIAL NOTE: THE WET WELL SHALL BE CONSIDERED A CLASSIFIED AREA--CLASS I, DIVISION 1, GROUPS C AND D. ALL EQUIPMENT AND WIRING INSTALLED IN THIS AREA SHALL MEET THE REQUIREMENTS FOR THIS TYPE OF HAZARDOUS LOCATION.

AUTOMATIC TELEPHONE DIALER STATUS AND ALARM SCHEDULE
1. GENERATOR STATUS (ON/OFF) FROM AUXILIARY (RUN) RELAY.
2. GENERATOR FAILURE ALARM FROM FAULT RELAY.
3. AUTOMATIC TRANSFER SWITCH STATUS (NORMAL/ALTERNATE) FROM AUXILIARY CONTACTS.
4. HIGH WATER LEVEL ALARM FROM PUMP CONTROL PANEL.
5. LOW WATER LEVEL ALARM FROM PUMP CONTROL PANEL.
6. PUMP NO. 1 FAILURE ALARM (THERMAL SENSOR AND/OR SEAL LEAK SENSOR) FROM PUMP CONTROL PANEL.
7. PUMP NO. 2 FAILURE ALARM (THERMAL SENSOR AND/OR SEAL LEAK SENSOR) FROM PUMP CONTROL PANEL.
8. GRINDER JAMMED/FAILURE FROM GRINDER PANEL.



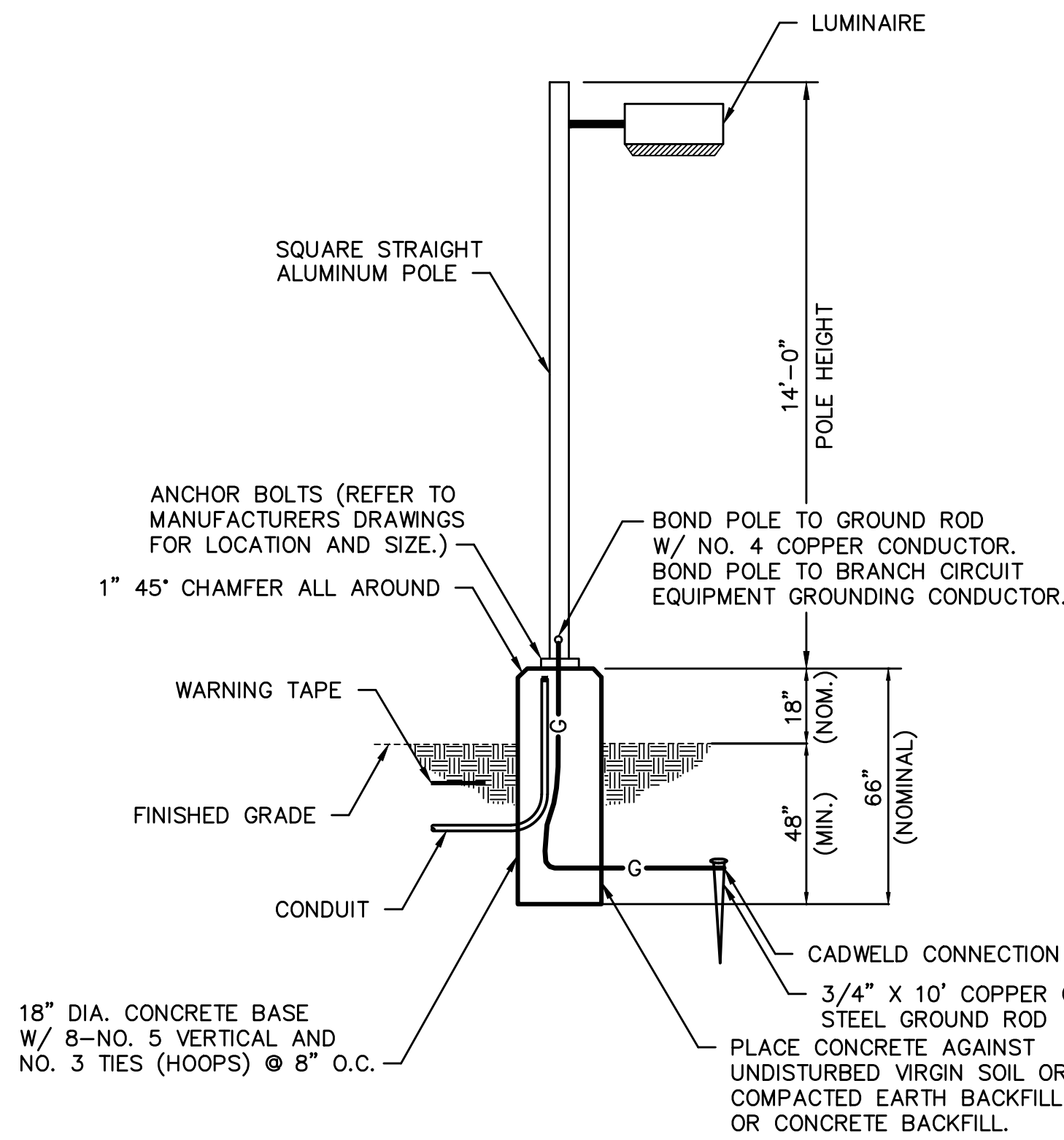
PUMP STATION SCHEMATIC DIAGRAM

ELECTRICAL ABBREVIATIONS

A, AMP	AMPERE
ATS	AUTOMATIC TRANSFER SWITCH
BAP	BELL ATLANTIC - PA.
BKR	BREAKER
C, CND	CONDUIT
CKT	CIRCUIT
ELEC	ELECTRICAL
FLUOR	FLUORESCENT
G, GND	GROUND
GFI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
INCL	INCLUDING
J, JB	JUNCTION BOX
KVA	KILOVOLT AMPERES
KW	KILOWATT
LP	LIGHTING PANEL
M	METER
MCB	MAIN CIRCUIT BREAKER
MFR	MANUFACTURER
MLO	MAIN LUG ONLY
OC	ON CENTER
P	POLE
PECO	PECO ENERGY COMPANY
PF	POWER FACTOR
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
V	VOLT
VA	VOLT AMPERES
VTR	VENT THRU ROOF
W	WATT, WIRE
W/	WITH
WP	WEATHERPROOF
XP	EXPLOSIONPROOF

ELECTRICAL LEGEND

B _a	FLUORESCENT LIGHTING FIXTURE UPPER CASE LETTER DENOTES TYPE IN SCHEDULE. LOWER CASE LETTER DENOTES SWITCH LEG
WP GFI	WALL MOUNTED LIGHT FIXTURE, LETTERS SAME AS ABOVE
\$ _k	DUPLEX RECEPTACLE, 120V, 20A. "WP" INDICATES WEATHERPROOF, "GFI" INDICATES GROUND FAULT INTERRUPTING
/10/	TOGGLE SWITCH, 120V, 20A. LOWER CASE LETTER DENOTES FIXTURES TO BE SWITCHED
J, JB	MOTOR, NUMBER DENOTES HP
J, JB	JUNCTION BOX
⊗	DIESEL GENERATOR
⊗	UNIT HEATER
8	WIRING, ARROW INDICATES HOMERUN TO PANEL NUMBER "8" INDICATES CIRCUIT
⊗	CIRCUIT BREAKER
M	METER
⊗	AUTOMATIC TRANSFER SWITCH
Ø	PHASE, DIAMETER
---	BURIED CONDUIT
⊗	CONDUIT SEAL
⊗	GROUND ROD
---	GROUND CONDUCTOR
⊗	FIRE EXTINGUISHER
⊗	GROUND CONNECTION
⊗	TELEPHONE OUTLET
⊗	FUSED DISCONNECT SWITCH
---	ELECTRIC LINE
---	TELEPHONE LINE



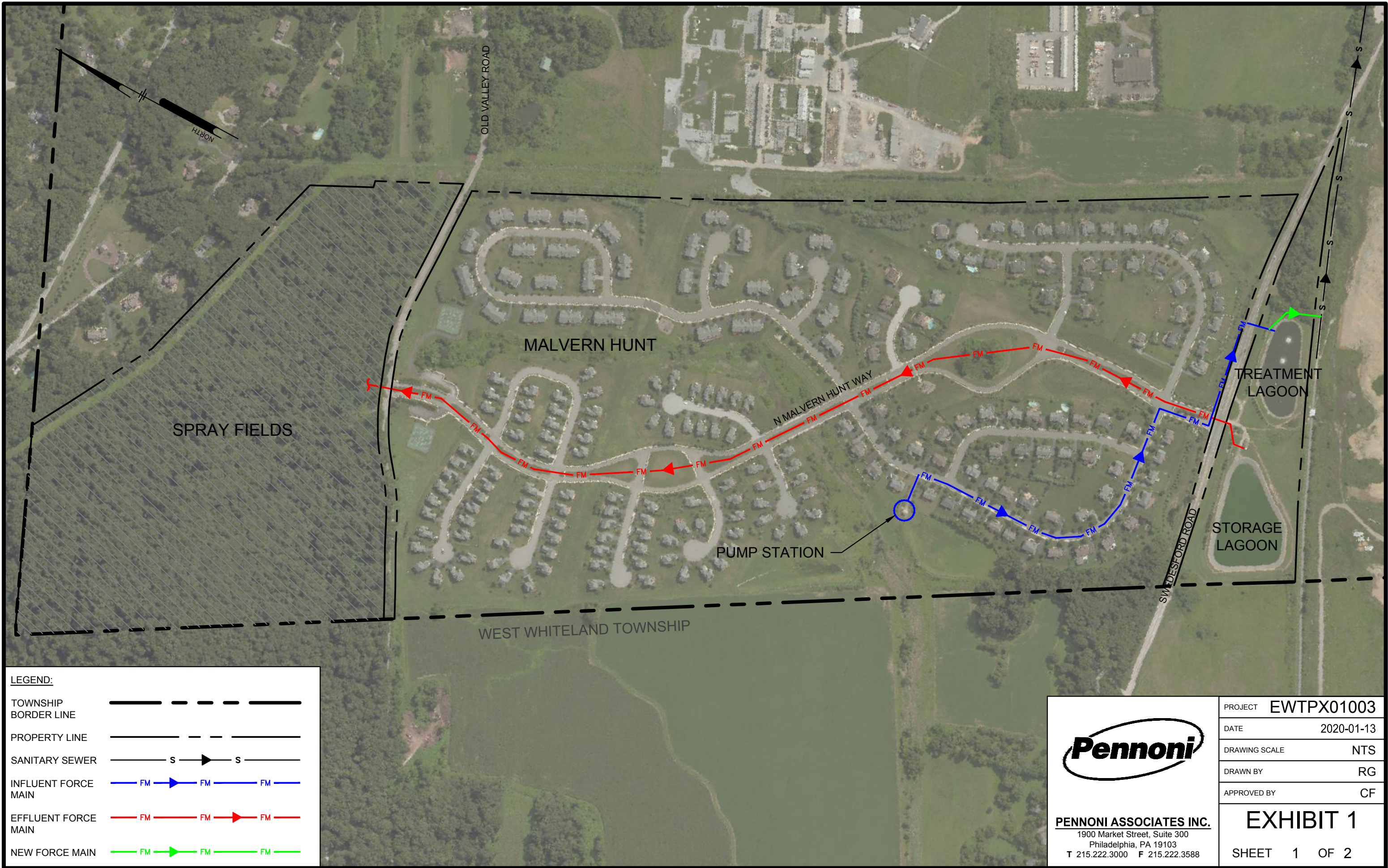
LIGHT POLE DETAIL

SCALE: = N.T.S.

ISSUED FOR BID
MARCH 31, 2000

D. MALVERN HUNT EXHIBITS

U:\ACCOUNTS\EWTPX01003 - MALVERN HUNT WWTP\DESIGN\ SHEETS\EXHIBIT 1.2.DWG
PLOTTED: 10/3/2014 4:08:04 PM BY: RYAN GASPARI NI PLOTSTYLE: PENNONI.NCS,STB, PROJECT STATUS: --



LEGEND:

TOWNSHIP BORDER LINE	
PROPERTY LINE	
SANITARY SEWER	
INFLUENT FORCE MAIN	
EFFLUENT FORCE MAIN	
NEW FORCE MAIN	

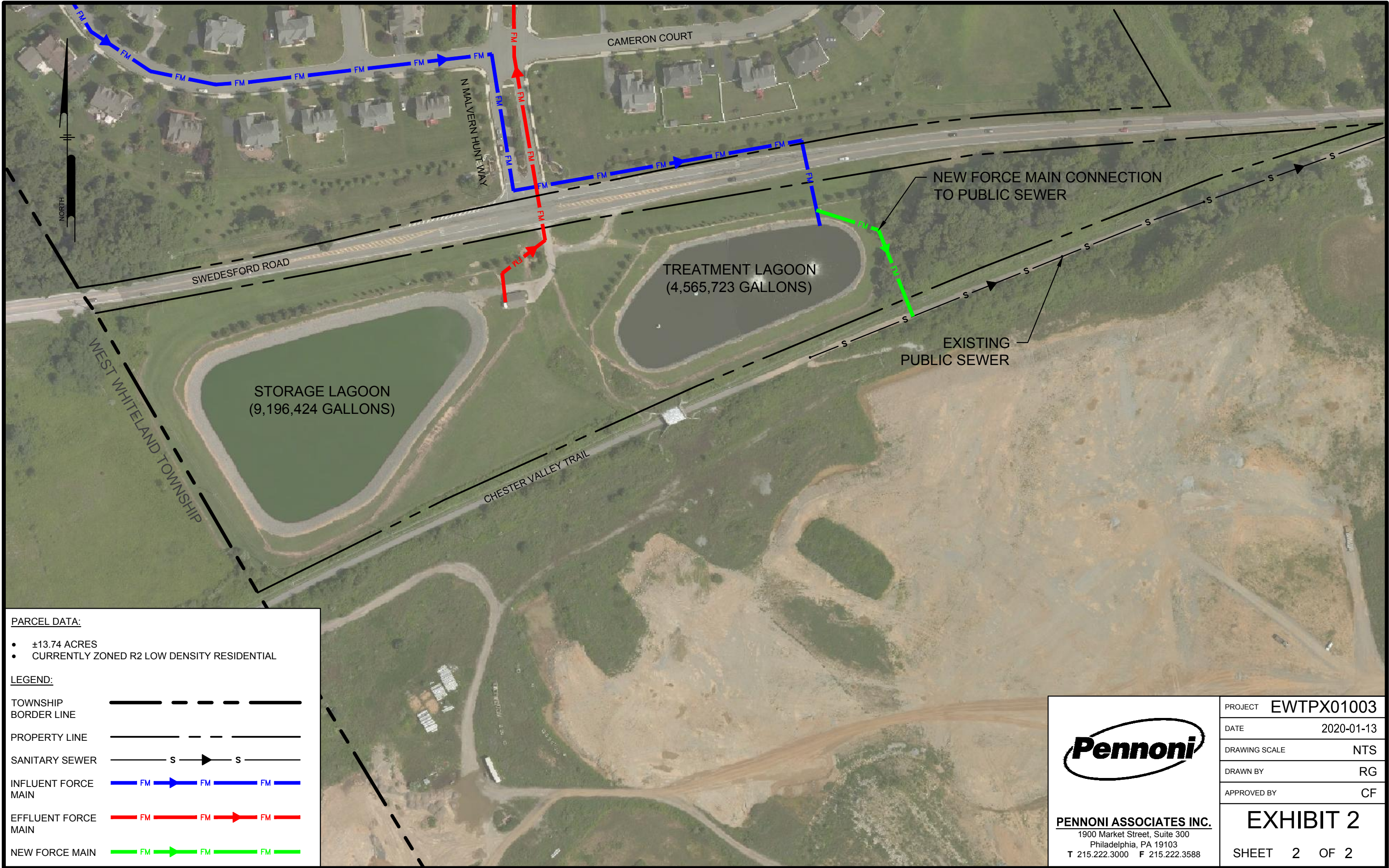


PENNONI ASSOCIATES INC.
1900 Market Street, Suite 300
Philadelphia, PA 19103
T 215.222.3000 F 215.222.3588

PROJECT	EWTPX01003
DATE	2020-01-13
DRAWING SCALE	NTS
DRAWN BY	RG
APPROVED BY	CF

EXHIBIT 1

SHEET 1 OF 2




PARCEL DATA:

- ±13.74 ACRES
- CURRENTLY ZONED R2 LOW DENSITY RESIDENTIAL

LEGEND:

TOWNSHIP BORDER LINE	---
PROPERTY LINE	---
SANITARY SEWER	— s —▶— s —
INFLUENT FORCE MAIN	— FM —▶— FM —▶— FM —▶— FM —▶—
EFFLUENT FORCE MAIN	— FM —▶— FM —▶— FM —▶— FM —▶—
NEW FORCE MAIN	— FM —▶— FM —▶— FM —▶— FM —▶—



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PROJECT	EWTPX01003
DATE	2020-01-13
DRAWING SCALE	NTS
DRAWN BY	RG
APPROVED BY	CF
EXHIBIT 2	
SHEET	2 OF 2

U:\ACCOUNTS\EWTPX01003 - MALVERN HUNT WWTP\DESIGN\ SHEETS\EXHIBIT 1, 2.DWG
PLOTTED: 10/3/2014 4:08:04 PM BY: RYAN GASPARINI PLOTSTYLE: PENNONI.NCS,STB, PROJECT STATUS: ---